INDEX

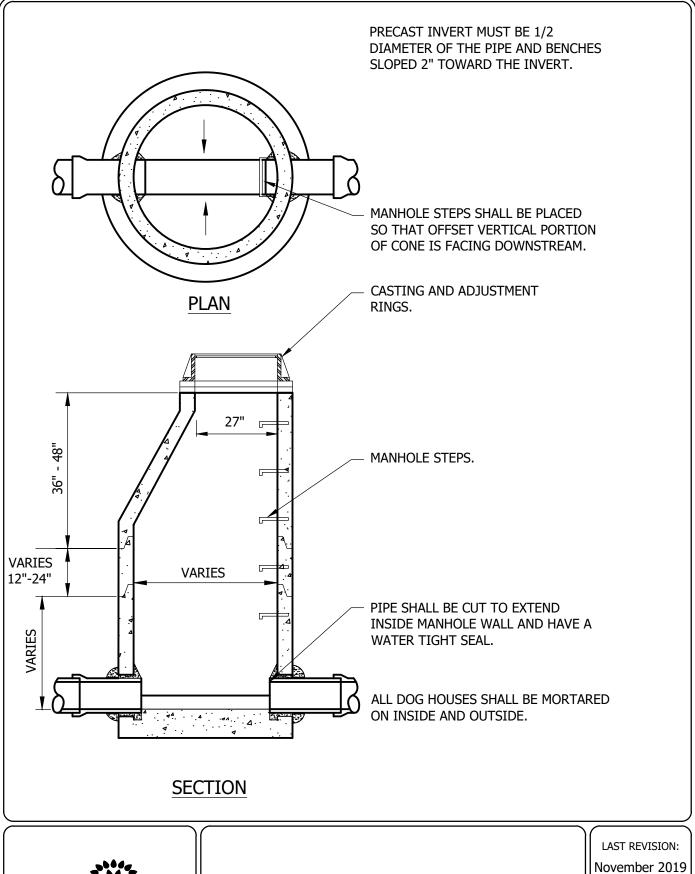
City	
Plate	
No.	SECTION 1 - SANITARY SEWER
<u></u>	SECTION 1 SAMITARY SEVER
SAN-1	SANITARY SEWER MANHOLE
SAN-2	SANITARY SEWER JUNCTION MANHOLE
SAN-3	SANITARY SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB
SAN-4	SANITARY SEWER OUTSIDE DROP INLET MANHOLE
SAN-5	WATERTIGHT CASTING FOR SANITARY SEWER MANHOLE
SAN-7	SANITARY SEWER INSIDE DROP INLET MANHOLE
SAIN-/	SANTIAKT SEWER INSIDE DROP INLET MAINHOLE



SECTION 1 - SANITARY SEWER INDEX

LAST REVISION:
December 2019

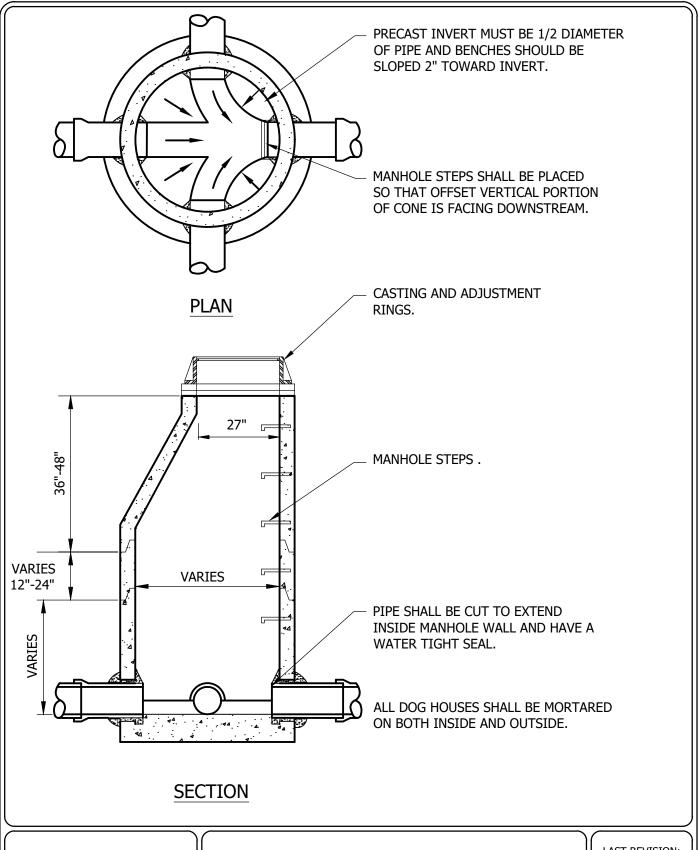
PLATE NO.





SANITARY SEWER MANHOLE

PLATE NO.

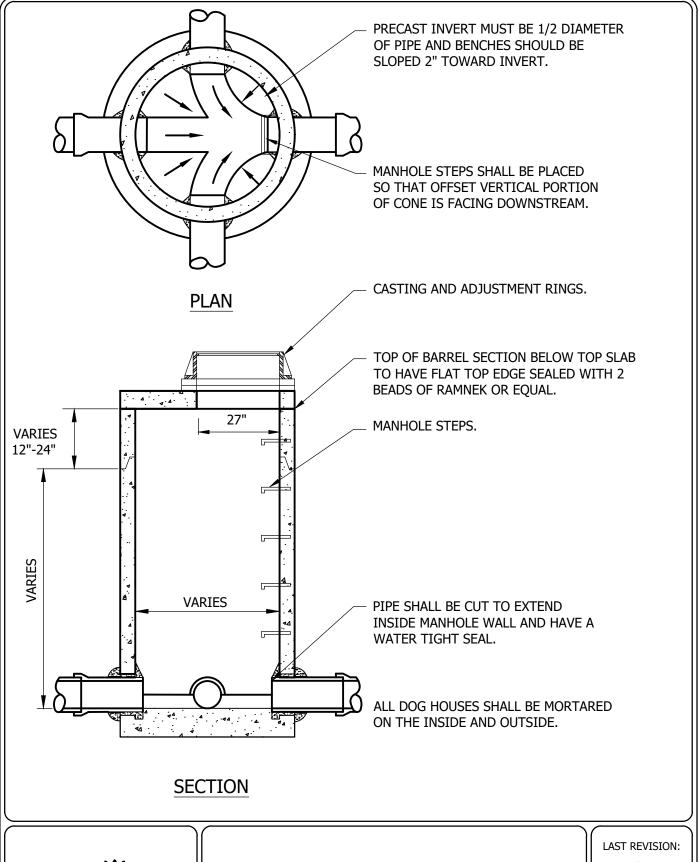




SANITARY SEWER JUNCTION MANHOLE

LAST REVISION: November 2019

PLATE NO.

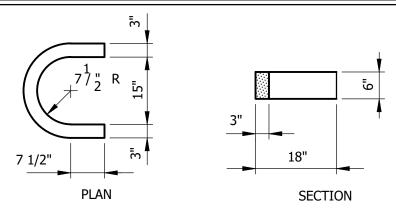




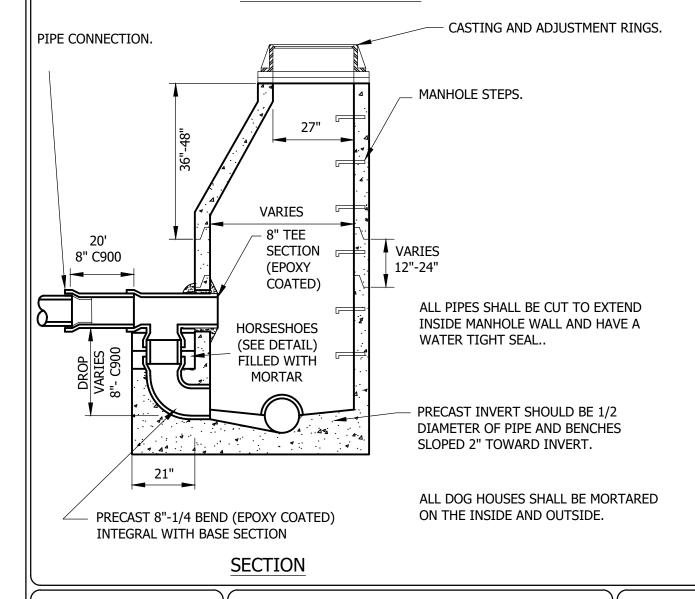
SANITARY SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB

November 2019

PLATE NO.



HORSESHOE DETAILS

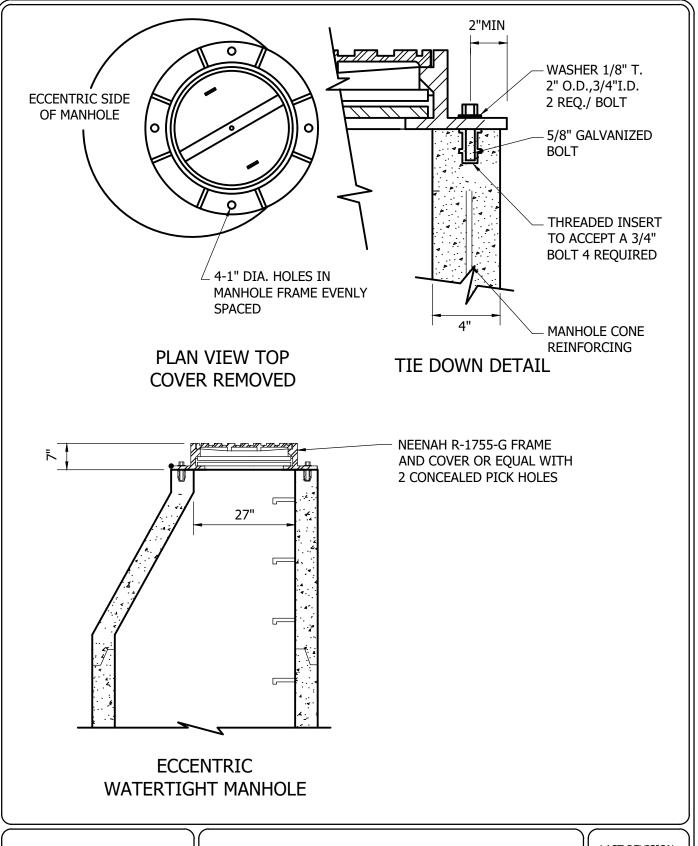




SANITARY SEWER OUTSIDE DROP INLET MANHOLE

LAST REVISION: November 2019

PLATE NO. SAN-4

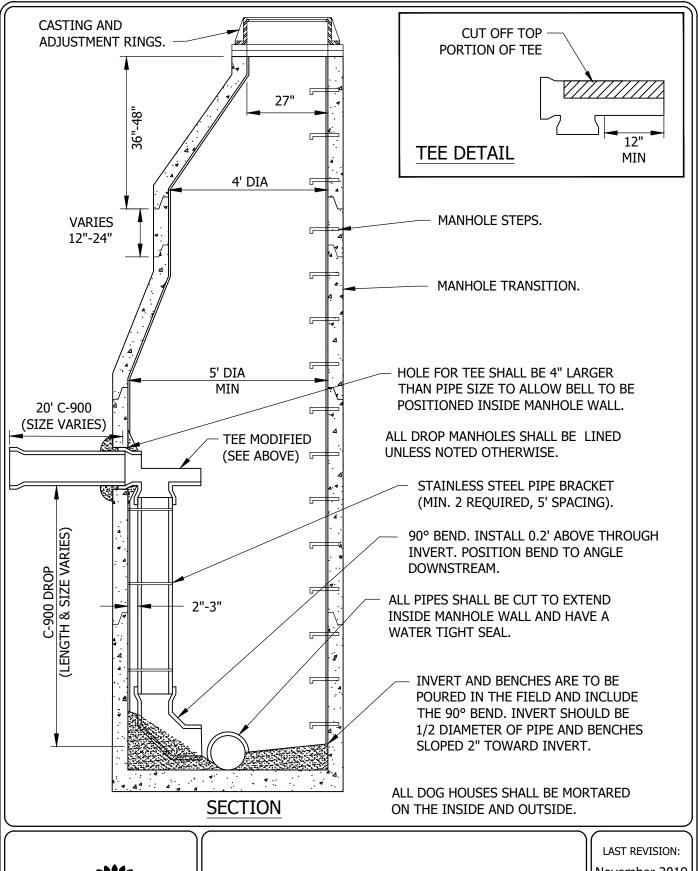




WATERTIGHT CASTING FOR SANITARY SEWER MANHOLE

LAST REVISION:
November 2017

PLATE NO. SAN-5





SANITARY SEWER INSIDE DROP **INLET MANHOLE**

November 2019

PLATE NO.

INDEX

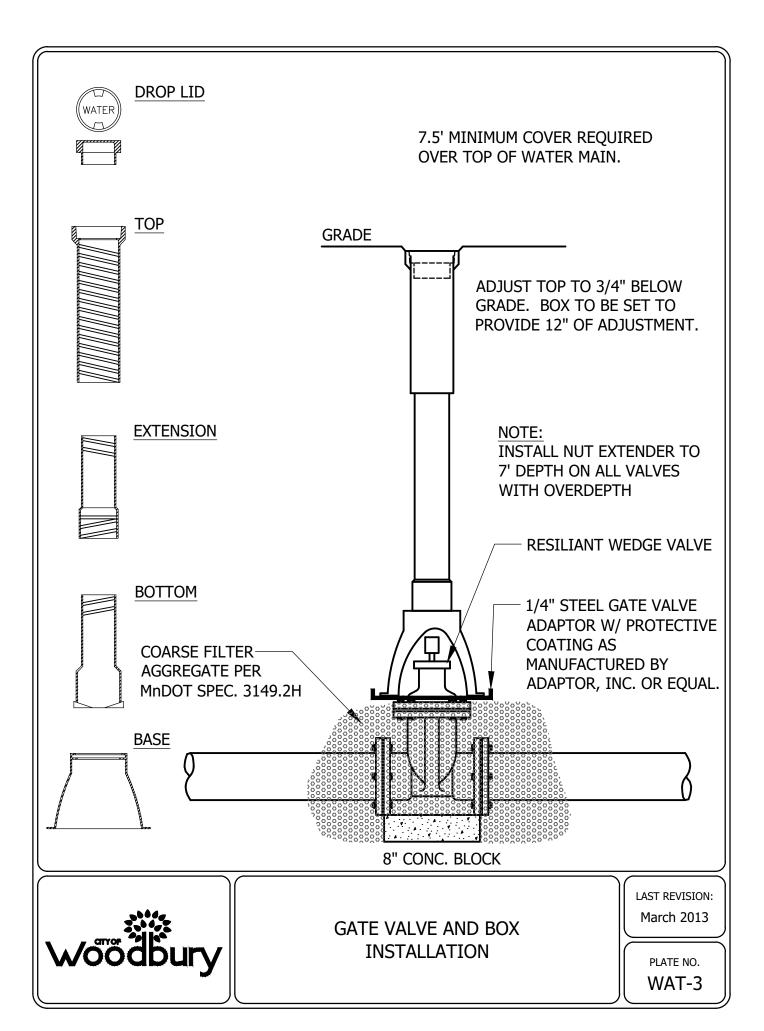
City	INDLA
Plate <u>No.</u>	SECTION 2 - WATER MAIN
WAT-3	GATE VALVE AND BOX INSTALLATION
WAT-4	BUTTERFLY VALVE AND BOX INSTALLATION
WAT-5	WATER MAIN WET TAP
WAT-6	CONCRETE THRUST BLOCKING
WAT-8	HYDRANT DETAIL W/ MEGALUGS
WAT-9	HYDRANT DETAIL WITH VERTICAL BEND & MEGALUGS
WAT-10	WATERMAIN OFFSET W/ MEGALUGS
WAT-11	INSULATION DETAIL

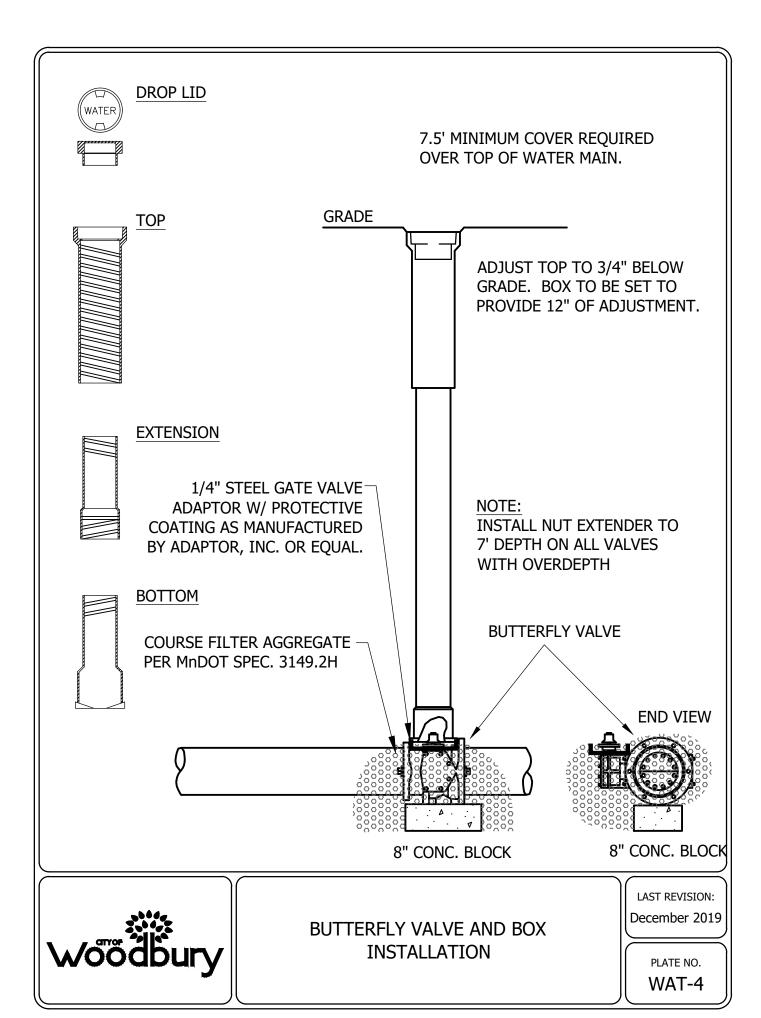


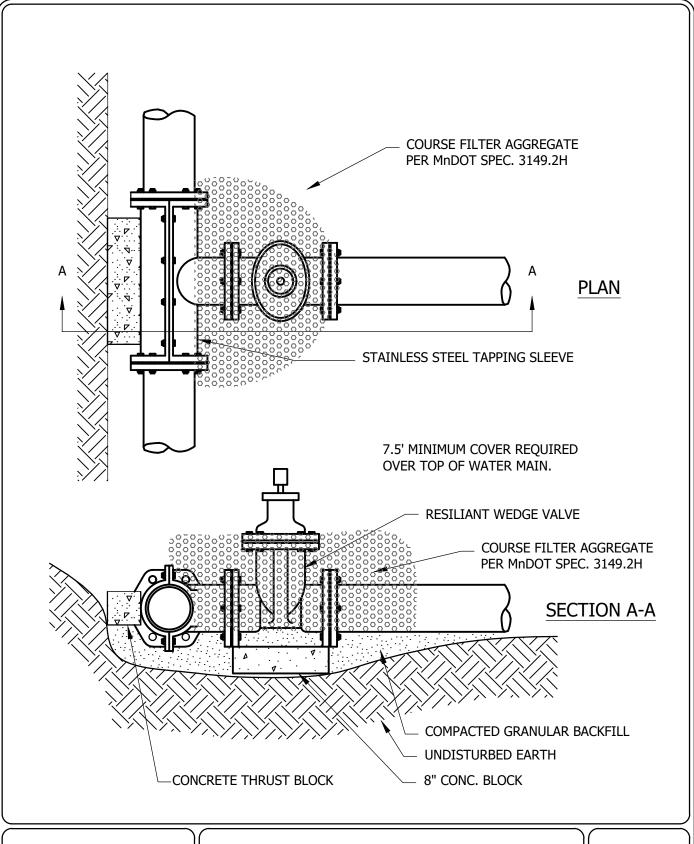
SECTION2 - WATER MAIN INDEX

LAST REVISION:
December 2016

PLATE NO.









WATER MAIN WET TAP

LAST REVISION: February 2012

PLATE NO.

WAT-5

NOTES:

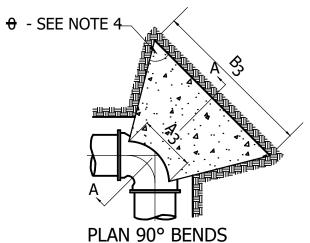
- 1. SHAPE OF BACK OF BUTTRESS MAY VERY AS LONG AS POURED AGAINST FIRM UNDISTURBED EARTH.
- 2. DIMENSION C1,C2,C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE 0 EQUAL TO OR ⊥ARGER THAN 45°.
- DIMENSION A1,A2,A3 SH BE AS LARGE AS POSSIBL WITHOUT INTERFERING MJ BOLTS.

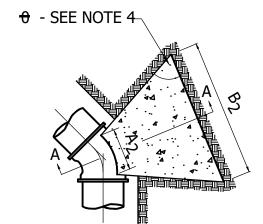
OULD	
E	
WITH	

סווסונאוזויונט ככואדוטט						
PIPE	22 1/2° BEND		D 45° BEND		90° BEND	
SIZE	B ₁	D ₁	В2	D ₂	Вз	D3
6"					2'-1"	1'-6"
8"					2'-8"	2'-0"
12"	1'-10"	1'-10"	3'-4"	2'-0"	4'-9"	2'-6"
16"	3'-0"	2'-0"	3'-10"	3'-0"	6'-2"	3'-6"
20"	3'-6"	2'-8"	5'-6'	3'-4"	8'-4"	4'-0"
24"	4'-4"	3'-0"	6'-10"	3'-10"	9'-8"	5'-0"
30"			9'-3"	6'-0"	17'-0"	6'-0"

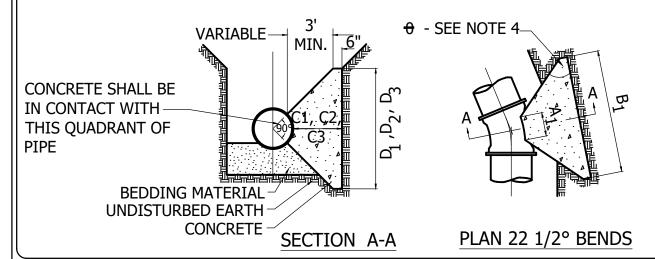
BLITTRESS DIMENSIONS

- 4. $0 = 45^{\circ} MINIMUM$.
- 5. PLACE POLYETHYLENE BETWEEN CONCRETE & PIPE.





PLAN 45° BENDS

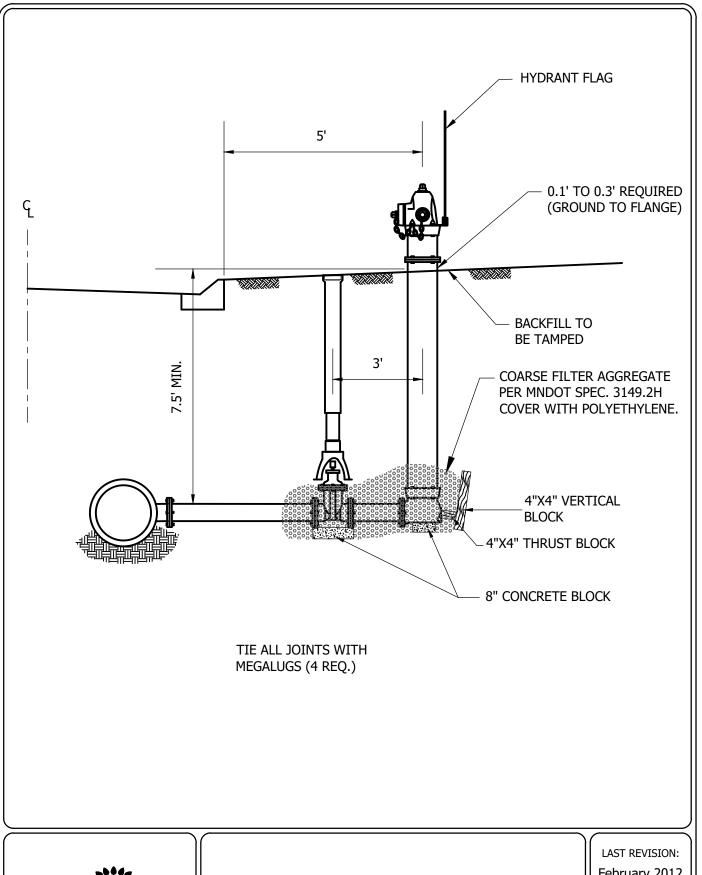




CONCRETE THRUST BLOCKING

LAST REVISION: January 2018

> PLATE NO. WAT-6

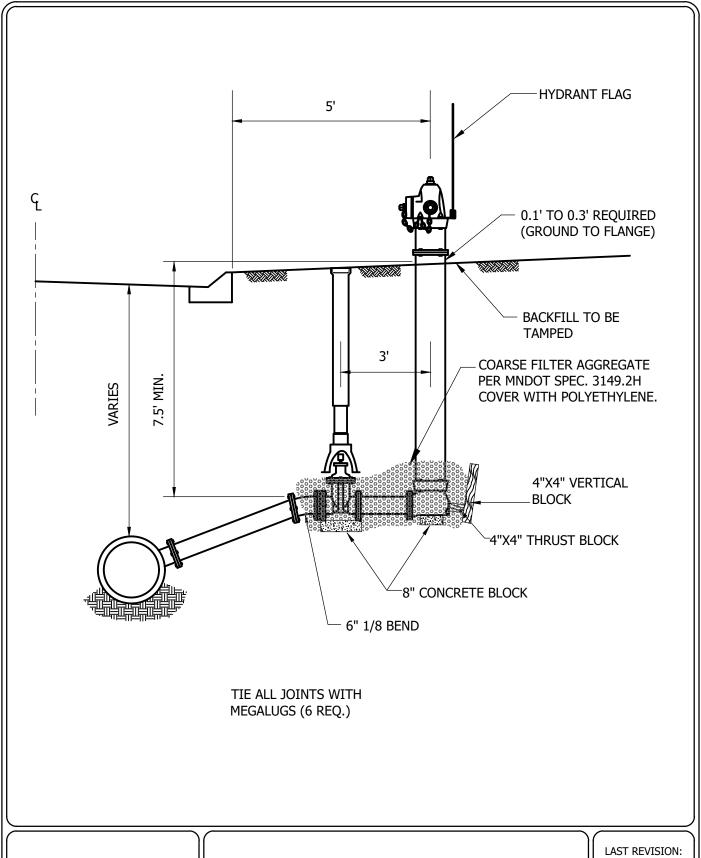




HYDRANT DETAIL W/ MEGALUGS

February 2012

PLATE NO. WAT-8

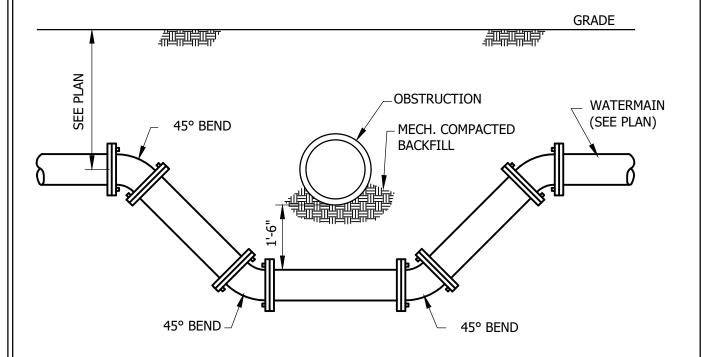




HYDRANT DETAIL
WITH VERTICAL BEND & MEGALUGS

February 2012

PLATE NO. WAT-9



TIE ALL JOINTS WITH MEGALUGS (8 REQ.)

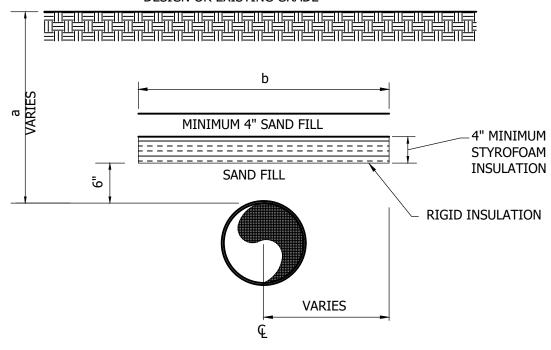


WATER MAIN OFFSET W/ MEGALUGS

LAST REVISION:
April 2018

PLATE NO. WAT-10

DESIGN OR EXISTING GRADE



NOTE: PIPE SHALL BE CENTERED UNDER INSULATION UNLESS OTHERWISE SPECIFIED.

COVER OVER PIPE - a	WIDTH OF INSULATING BOARD - b	
2'	11'	
3'	9'	
4'	7'	
5'	5'	
61	21	



INSULATION DETAIL

LAST REVISION: January 2018

PLATE NO. WAT-11

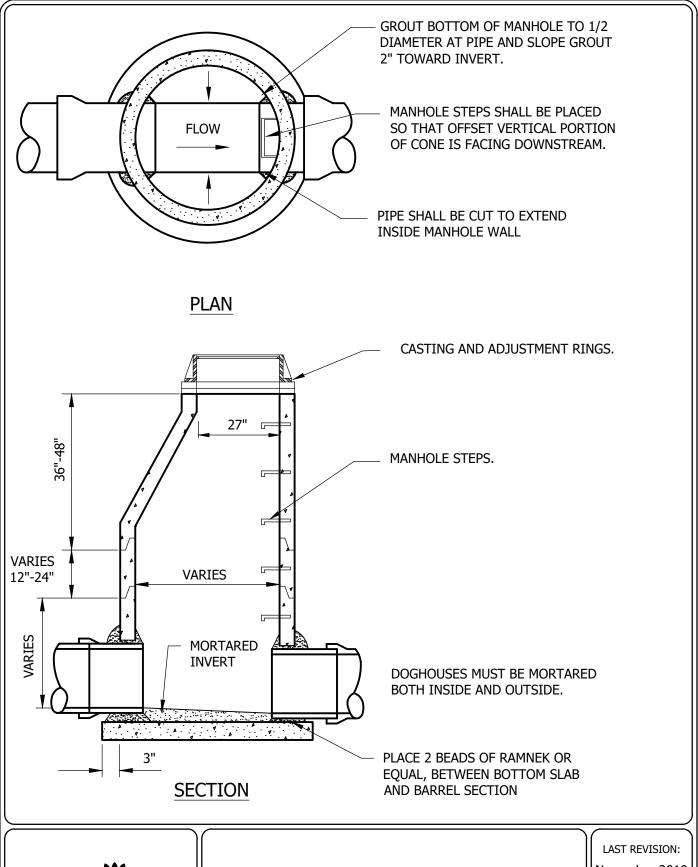
City Plate	INDEX
No.	SECTION 3 - STORM SEWER
STO-1	STORM SEWER MANHOLE
STO-2	STORM SEWER JUNCTION MANHOLE
STO-3	STORM SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB
STO-4	STORM SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB
	AND SUMP
STO-5	CATCH BASIN MANHOLE
STO-6	CATCH BASIN MANHOLE WITH SUMP
STO-7	CATCH BASIN
STO-8	CATCH BASIN WITH SUMP
STO-9	PRECAST SHALLOW STORM SEWER STRUCTURE
STO-12	FLARED END SECTION WITH TRASH GUARD
STO-13	RIP RAP AT FLARED END SECTION
STO-14	GROUTED RIP RAP AT FLARED END SECTION
STO-18	ENERGY DISSIPATER AND TRASH GUARD
STO-19	PERFORATED PVC DRAIN TILE PIPE
STO-20	RESIDENTIAL STORM DRAIN SERVICE
STO-24	SEEPAGE COLLAR
STO-25	OUTLET STRUCTURE
STO-27	STORM SEWER SERVICE CONNECTION TO RCP
STO-31	OVERFLOW WEIR WITH LOW FLOW CONTROL
STO-35	TYPICAL NURP POND DESIGN
STO-36	SKIMMER STRUCTURE
STO-37	OVERFLOW STRUCTURE
STO-38	OFF STREET CATCH BASIN WITH CONCRETE STOOL GRATE FRAME
STO-39	OUTLET STRUCTURE WITH POND DRAW DOWN PIPE AND GATE VALVE
STO-40	OVERFLOW STRUCTURE WITH TRASH GUARD
STO-42	TYPICAL POND AND INFILTRATION RASIN LAYOUT



SECTION 3 - STORM SEWER INDEX

LAST REVISION:
December 2019

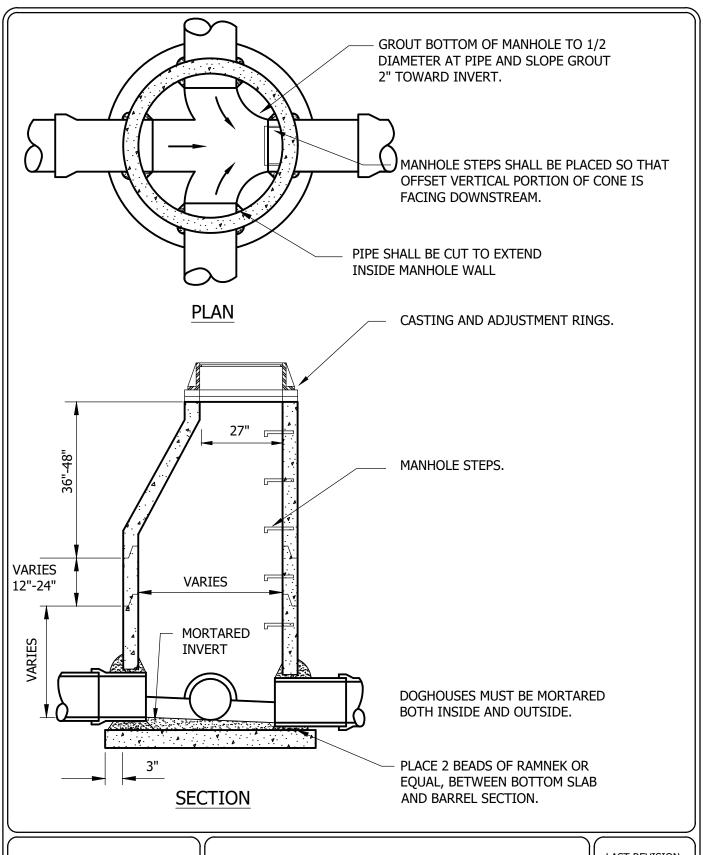
PLATE NO.





STORM SEWER MANHOLE

November 2019



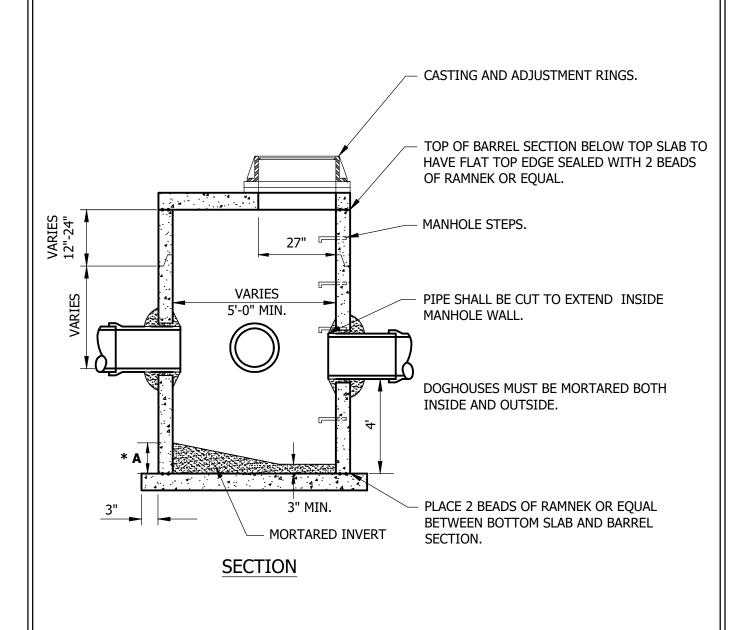


STORM SEWER JUNCTION MANHOLE

LAST REVISION:
November 2019

PLATE NO.

STO-2



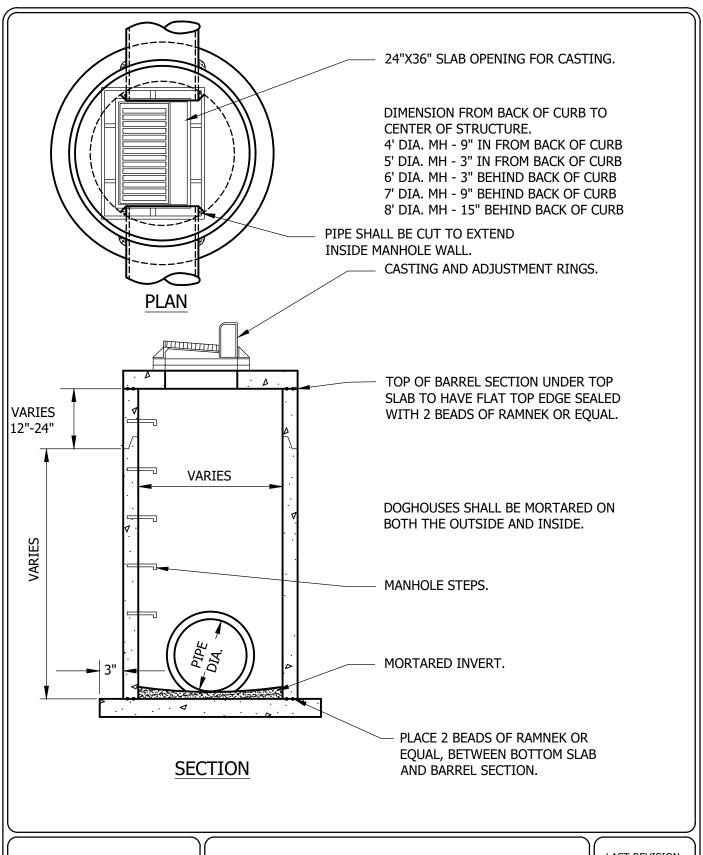


STORM SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB AND SUMP

LAST REVISION: November 2019

PLATE NO.

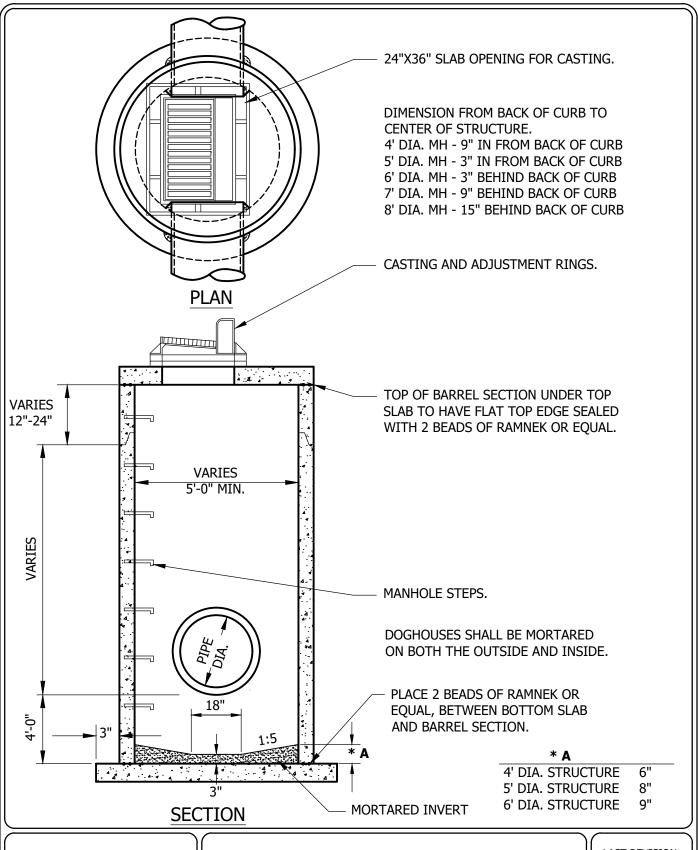
STO-4





CATCH BASIN MANHOLE

LAST REVISION: November 2019



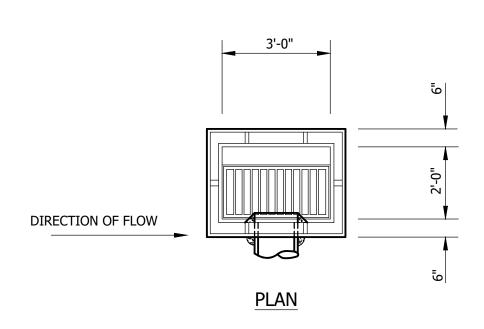


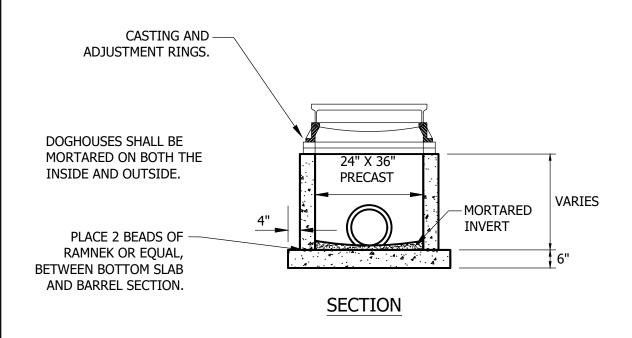
CATCH BASIN MANHOLE WITH SUMP

LAST REVISION: November 2019

PLATE NO.

STO-6

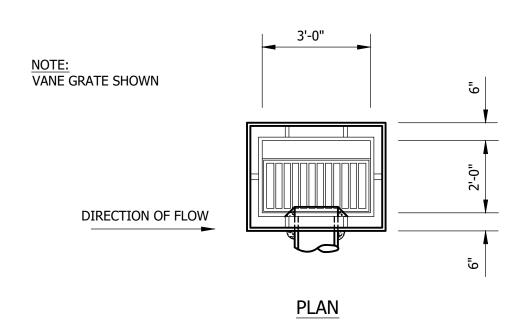


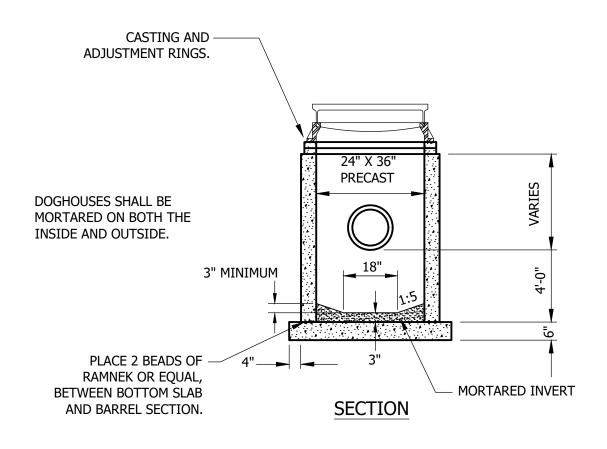




CATCH BASIN

LAST REVISION: November 2019

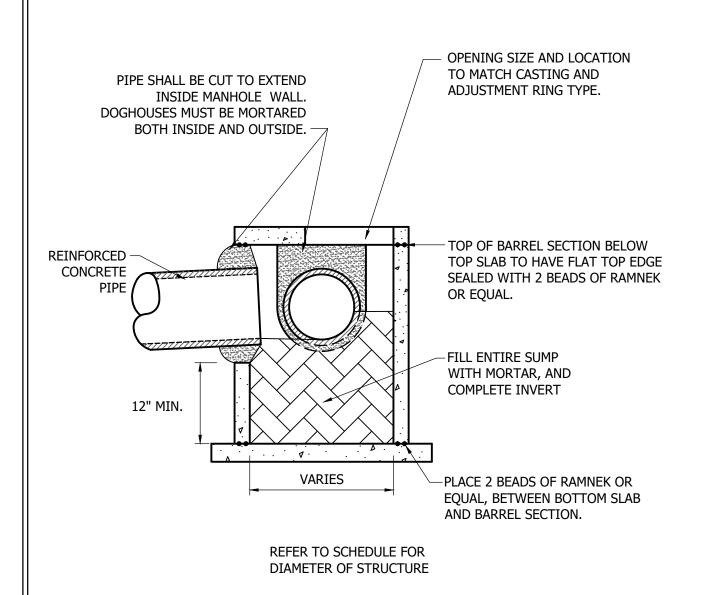






CATCH BASIN WITH SUMP

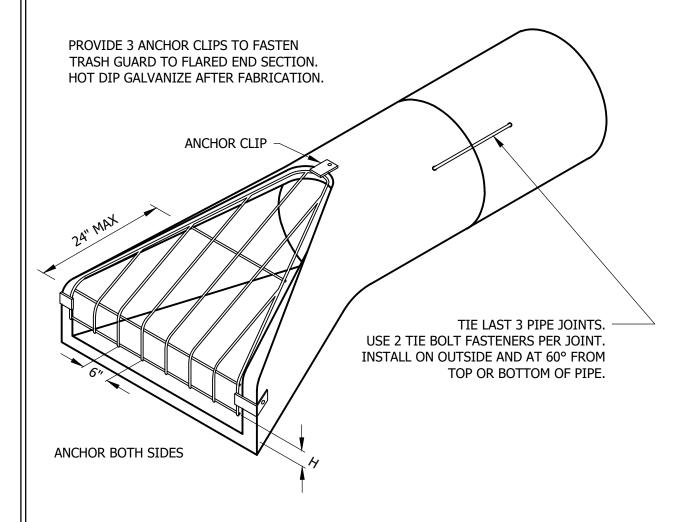
LAST REVISION: November 2019





PRECAST SHALLOW STORM SEWER STRUCTURE LAST REVISION: December 2019

INSTALL TRASH GUARDS ON ALL OUTLET (DOWNSTREAM) FLARED END SECTIONS AND INLET (UPSTREAM) FLARED END SECTIONS LARGER THAN 24".



ISOMETRIC

SEE CITY PLATE NO. STO-13 AND STO-14 FOR RIPRAP PLACEMENT.

TRASH GUARD SIZING

PIPE SIZE	ROUND BARS	'H'	BOLTS
12"- 18"	3/4"ø	3"-4"	5/8"
21"- 42"	1"ø	4"-6"	3/4"
48"-72"	1 1/4"ø	6"-8"	1"

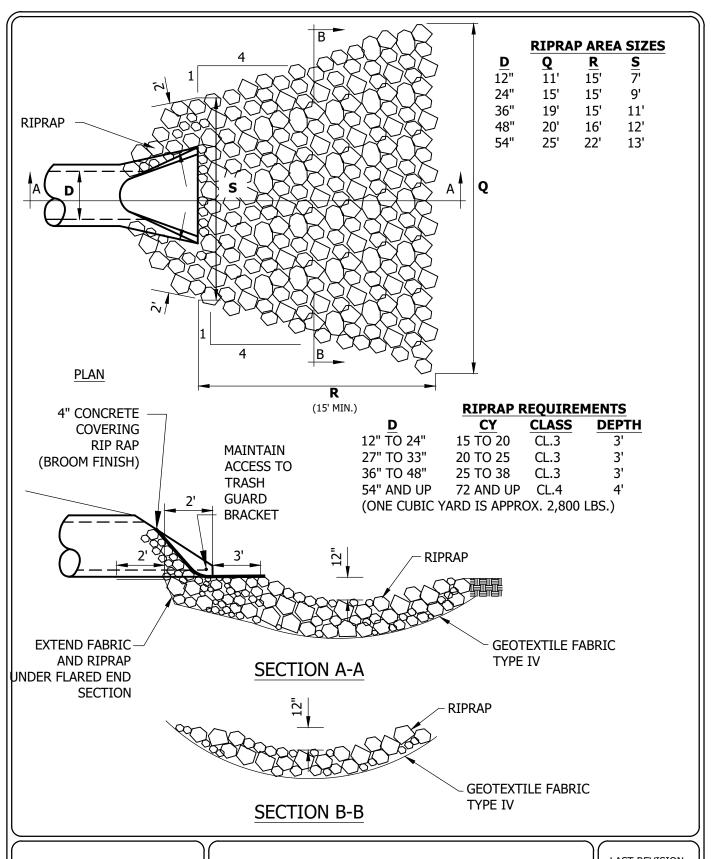


FLARED END SECTION WITH TRASH GUARD

LAST REVISION:
December 2019

PLATE NO.

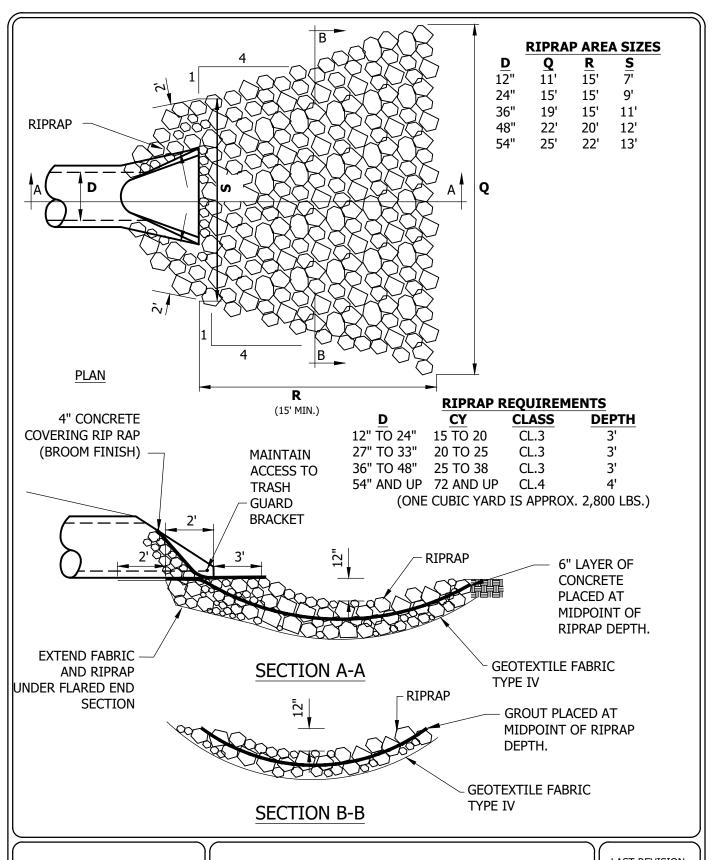
STO-12





RIPRAP AT FLARED END SECTION

LAST REVISION: November 2017



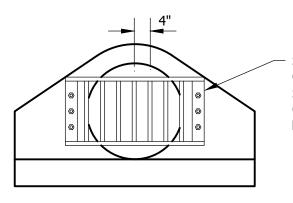


GROUTED RIPRAP AT FLARED END **SECTION**

LAST REVISION: November 2017

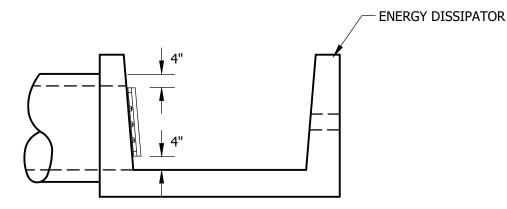
PLATE NO.

STO-14



STEEL PLATE - BOLT TO **CONCRETE WITH STAINLESS** STEEL BOLTS. HOT DIP **GALVANIZE AFTER** FABRICATION.

FRONT VIEW



SIDE VIEW

SIZE OF PIPE	SIZE OF PLATE	BARS	BOLTS
12" TO 18"	1/4"X2"	3/4"ø	2-5/8"ø
21" TO 48"	1/4"X3"	1"∅	3-3/4"ø

NOTE:

TIE LAST 3 JOINTS. USE 2 TIE BOLT FASTENERS PER JOINT. INSTALL ON OUTSIDE OF PIPE AND AT 60° FROM TOP OR BOTTOM OF PIPE.

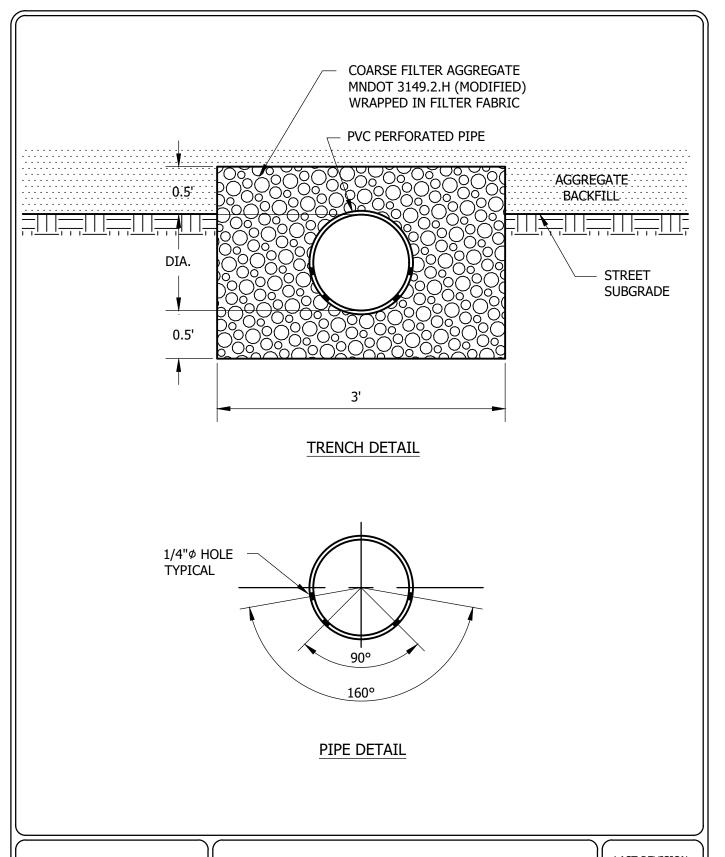


ENERGY DISSIPATOR AND TRASH GUARD

LAST REVISION: November 2017

PLATE NO.

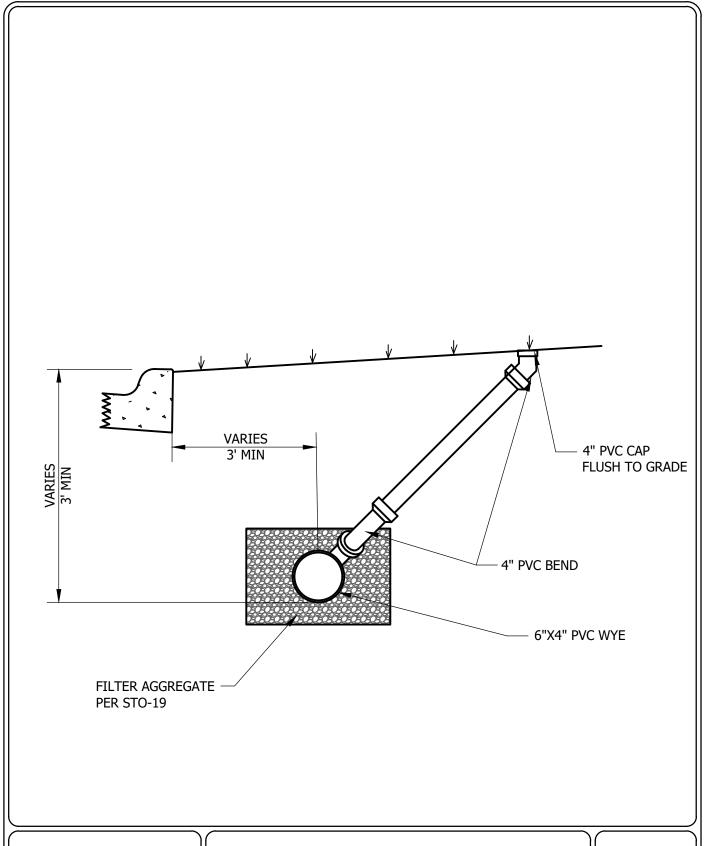
STO-18





PERFORATED PVC DRAIN TILE PIPE

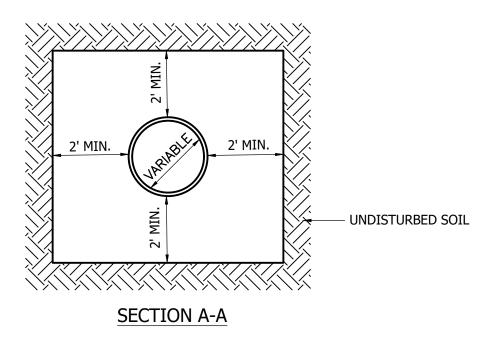
LAST REVISION: January 2018

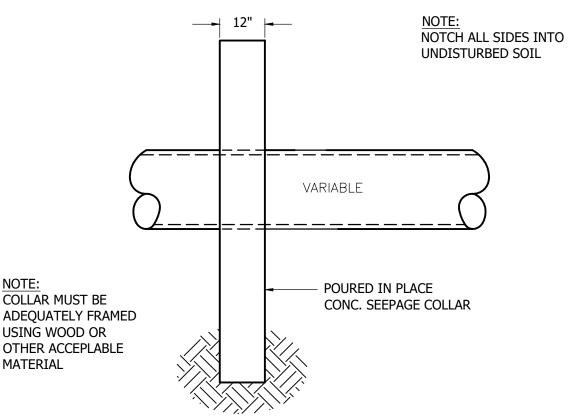




RESIDENTIAL STORM DRAIN SERVICE

LAST REVISION: December 2016







NOTE:

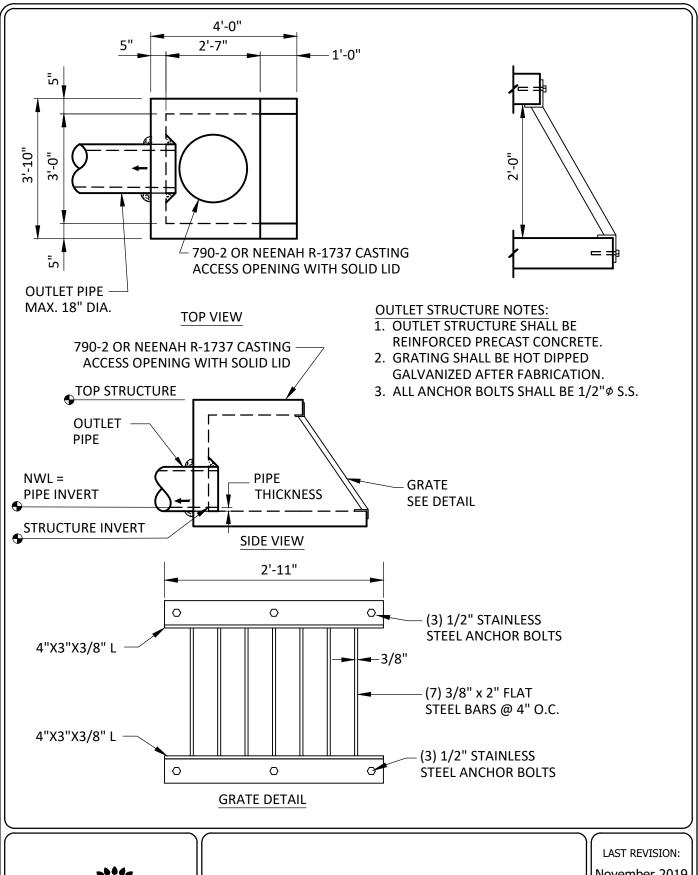
MATERIAL

COLLAR MUST BE

USING WOOD OR

SEEPAGE COLLAR

LAST REVISION: March 2008

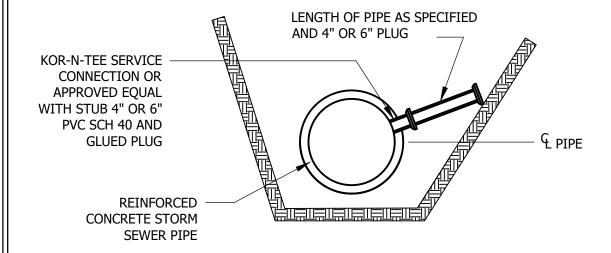




OUTLET STRUCTURE

November 2019

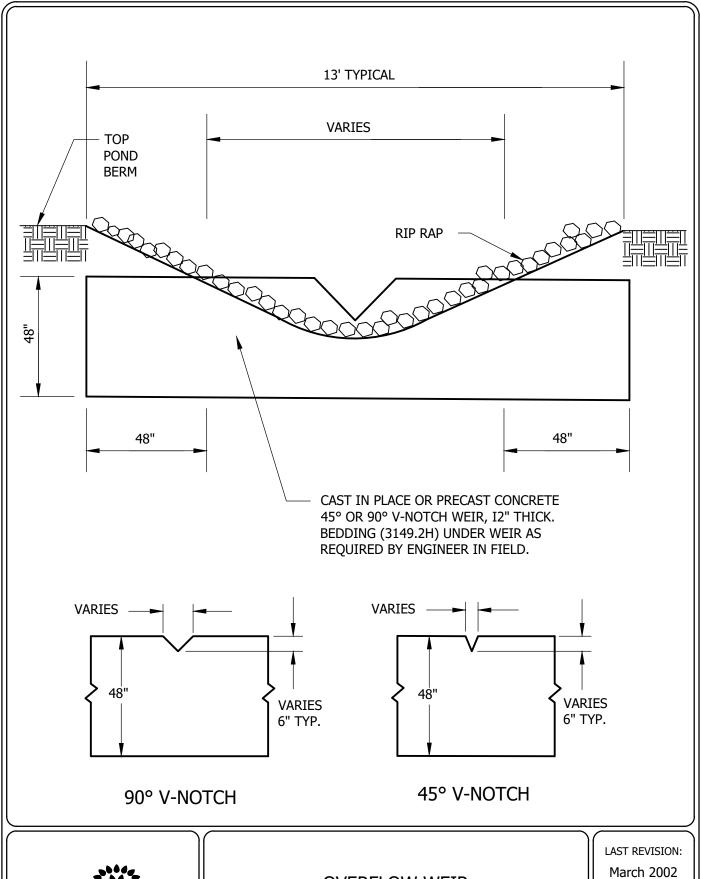
NOTE: SERVICE CONNECTIONS TO BE AT 2:00 OR 10:00





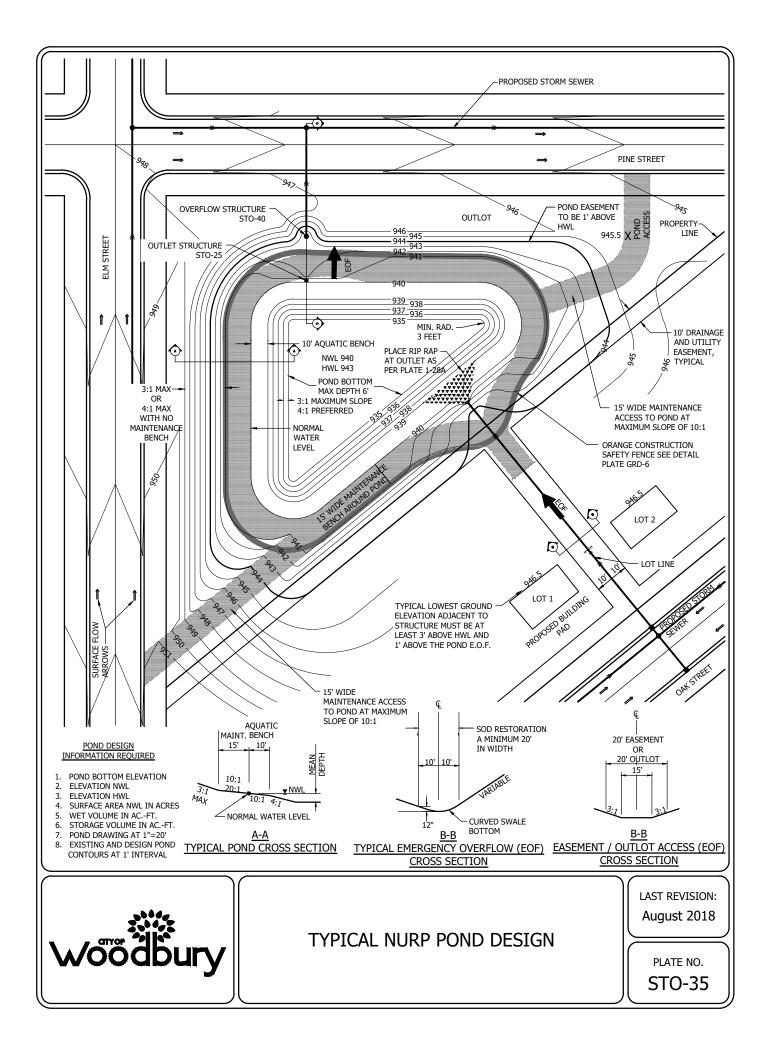
STORM SEWER SERVICE CONNECTION TO RCP

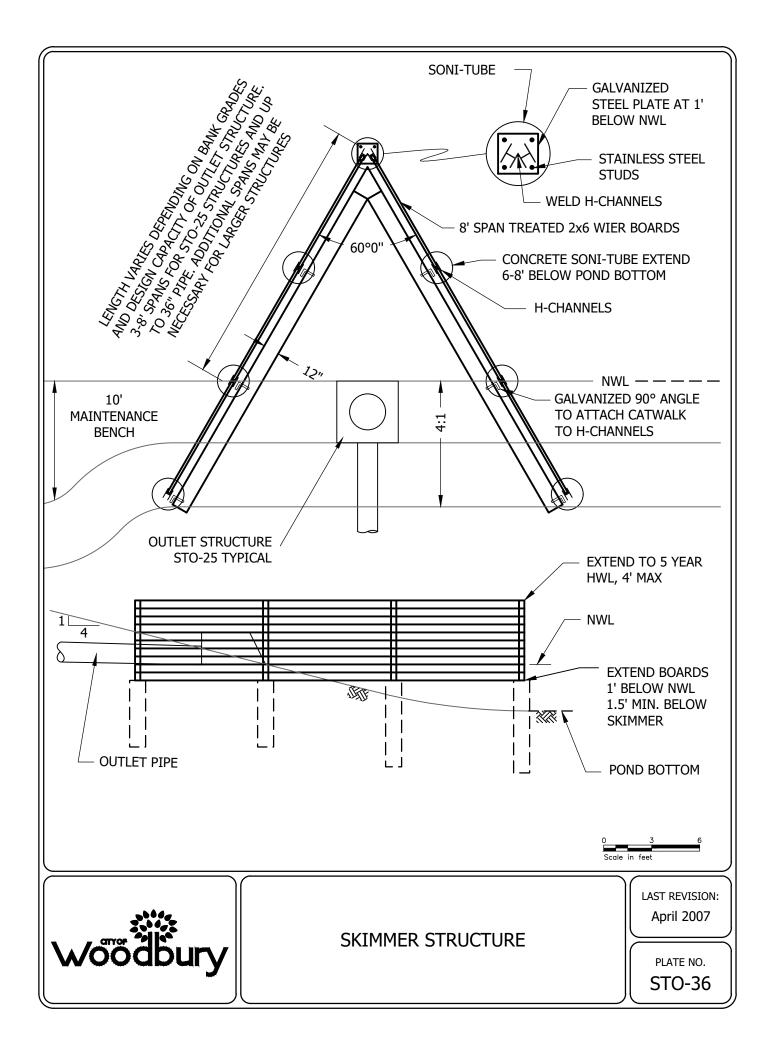
LAST REVISION:
April 2004

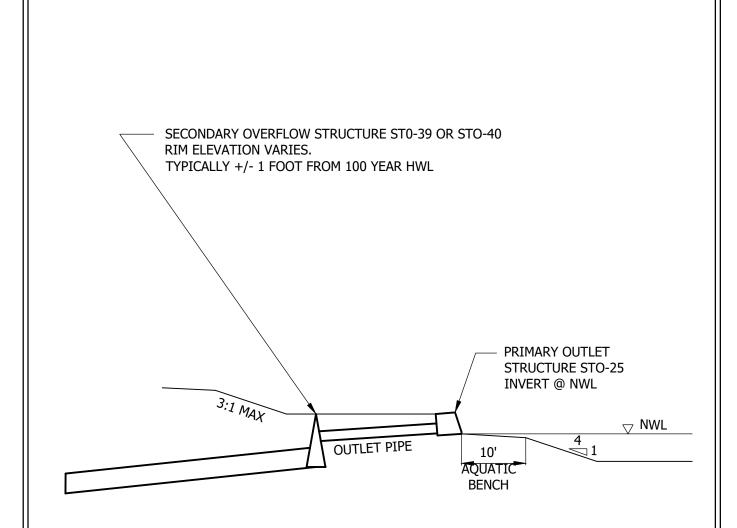




OVERFLOW WEIR WITH LOW FLOW CONTROL







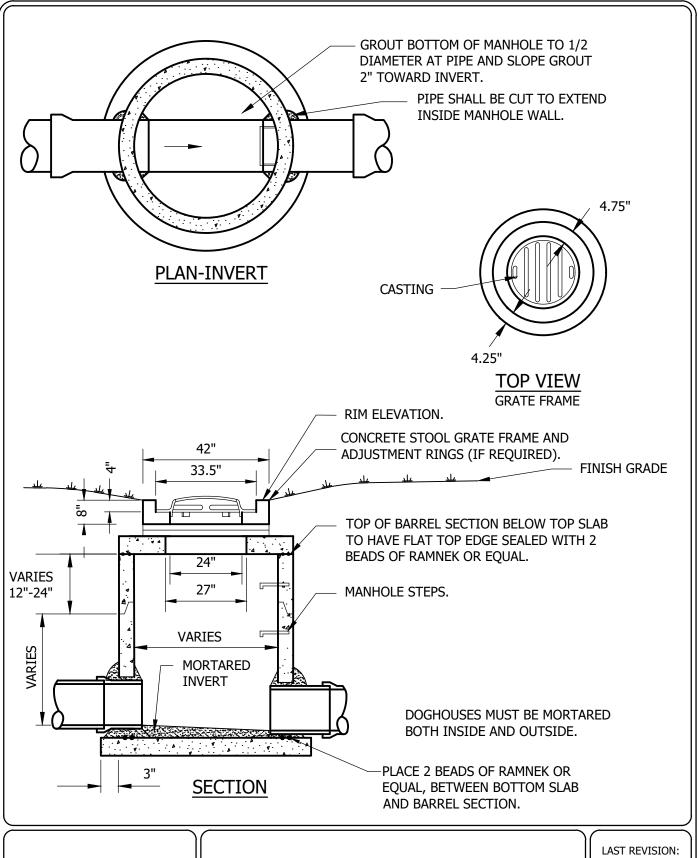
TYPICAL SECTION AT POND OUTLET / DRAIN



OVERFLOW STRUCTURE

LAST REVISION: February 2012

PLATE NO. STO-37



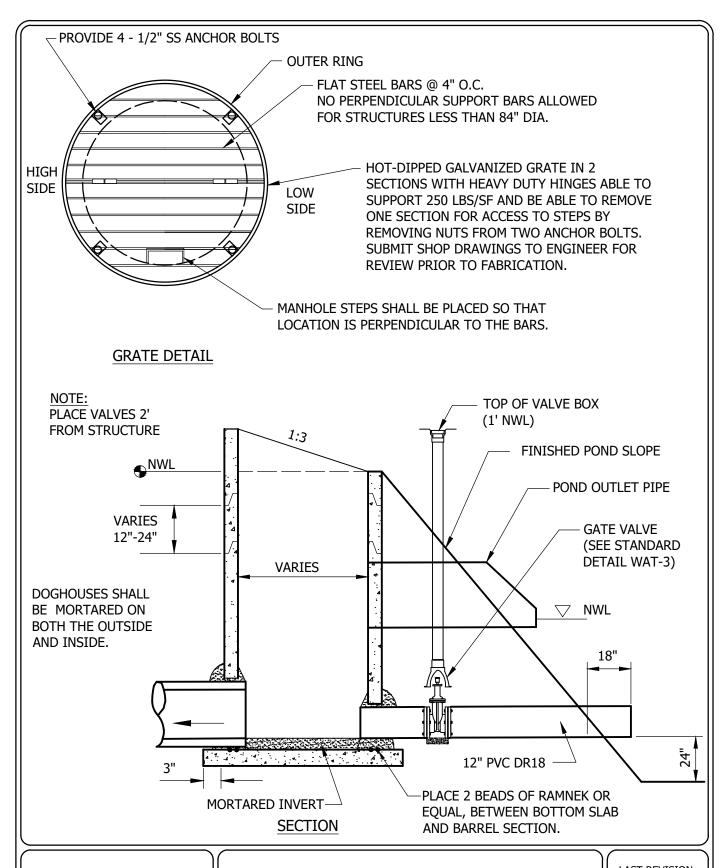


OFF STREET CATCH BASIN WITH CONCRETE STOOL GRATE FRAME

November 2019

PLATE NO.

STO-38



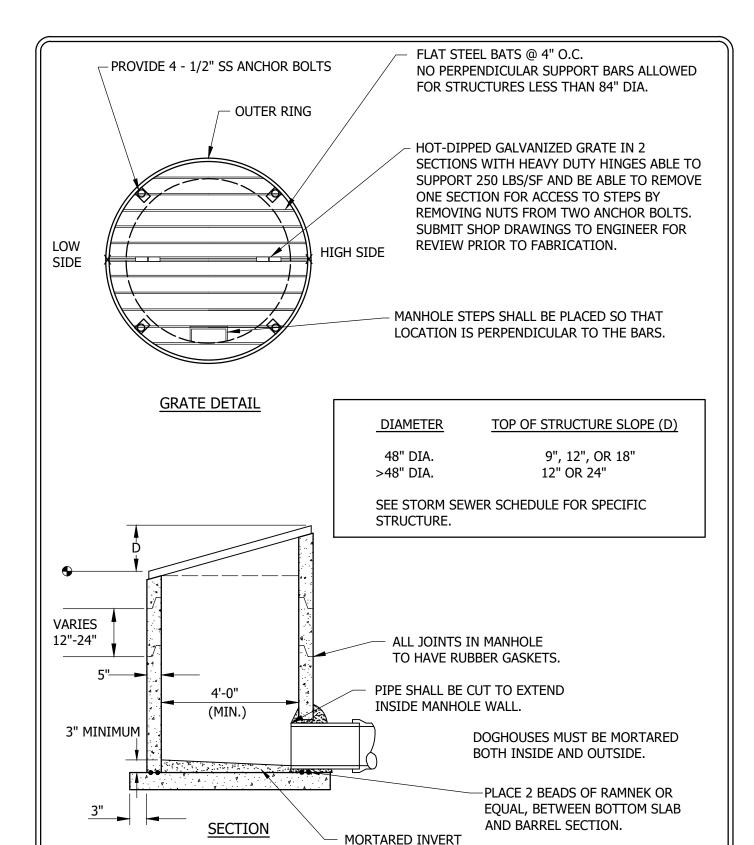


OUTLET STRUCTURE WITH POND DRAW DOWN PIPE AND GATE VALVE

LAST REVISION: December 2019

PLATE NO.

STO-39

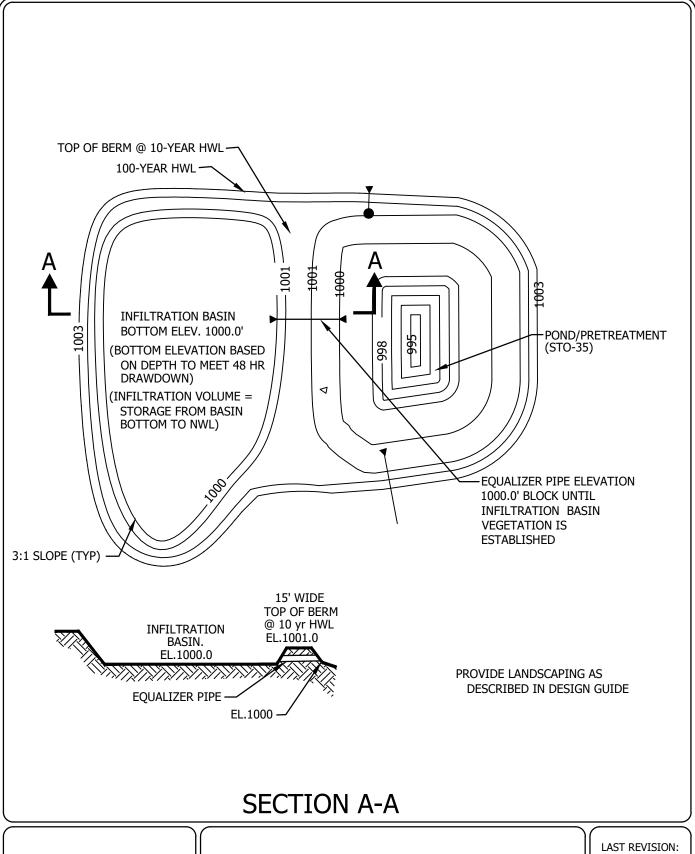




OVERFLOW STRUCTURE WITH TRASH GUARD

LAST REVISION:
November 2019

PLATE NO. STO-40





TYPICAL POND AND INFILTRATION BASIN LAYOUT

January 2020

PLATE NO. STO-42

INDEX

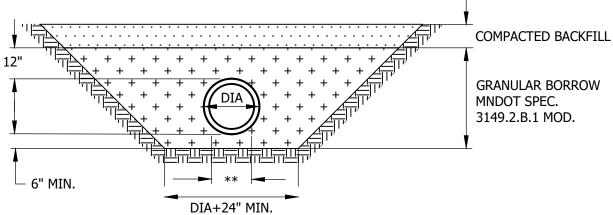
City	
Plate <u>No.</u>	SECTION 4 - BEDDING
BED-1	PIPE FOUNDATION & BEDDING METHODS FOR
	PVC & POLYPROPYLENE PIPE
BED-2	PIPE FOUNDATION & BEDDING METHODS FOR
	RCP & DIP
BED-3	IMPROVED PIPE FOUNDATION FOR RCP, DIP,
	PVC & POLYPROPYLENE PIPE
BED-4	PIPE BEDDING IN ROCK FOR PVC, RCP & DIP



SECTION 4 - BEDDING INDEX

LAST REVISION:
November 2017

PLATE NO.



DIA = OUTSIDE DIAMETER OF PIPE

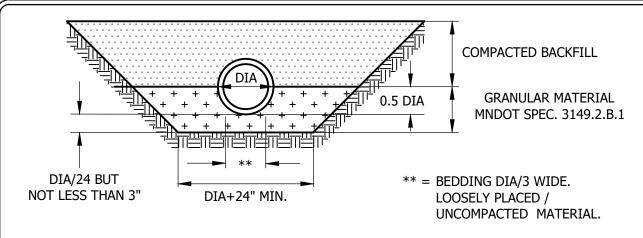
** = BEDDING DIA/3 WIDE. LOOSELY PLACED / UNCOMPACTED MATERIAL.

PVC AND POLYPROPYLENE PIPE FOUNDATION & BEDDING GOOD SOILS



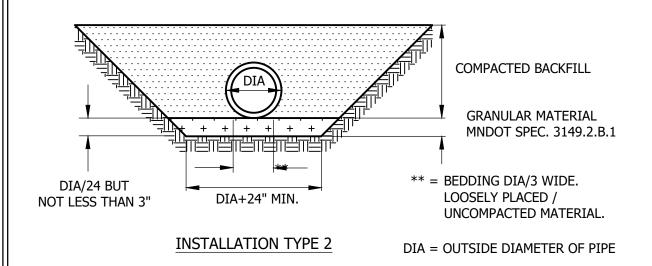
PIPE FOUNDATION & BEDDING METHOD FOR PVC & POLYPROPYLENE PIPE TRENCH LAST REVISION: January 2018

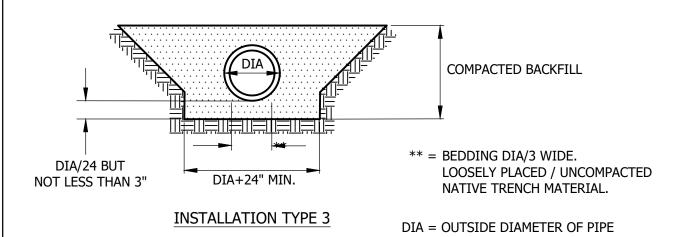
PLATE NO.



INSTALLATION TYPE 1

DIA = OUTSIDE DIAMETER OF PIPE



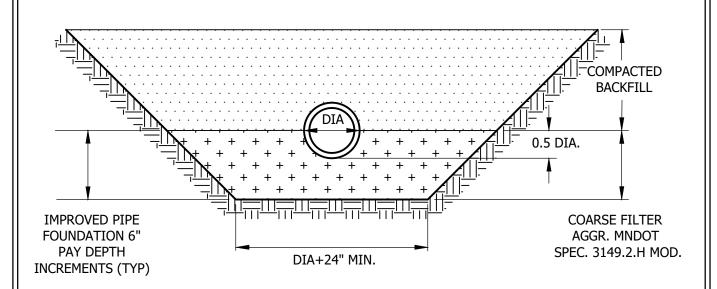




PIPE FOUNDATION & BEDDING METHODS FOR RCP & DIP

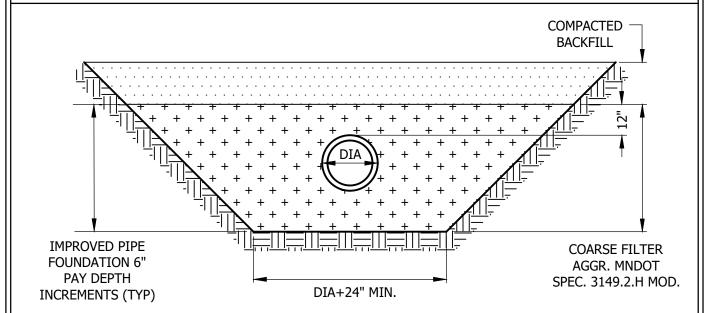
LAST REVISION: January 2018

PLATE NO.



DIA = OUTSIDE DIAMETER OF PIPE

RCP & DIP PIPE



DIA = OUTSIDE DIAMETER OF PIPE

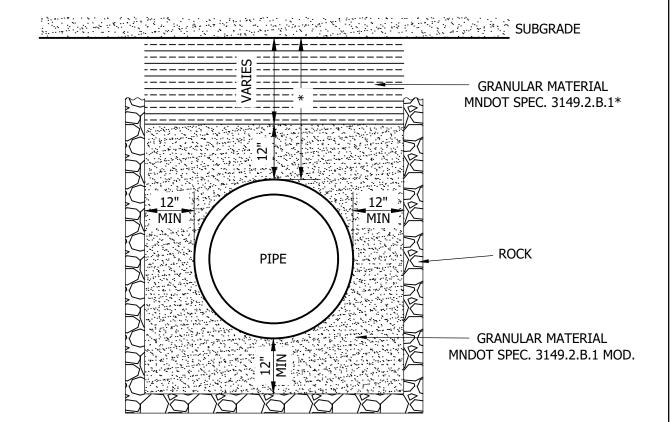
PVC & POLYPROPYLENE PIPE



IMPROVED PIPE FOUNDATION FOR RCP, DIP, PVC & POLYPROPYLENE PIPE TRENCH LAST REVISION: January 2018

PLATE NO.

*USE GRANULAR BORROW WHEN TOP OF PIPE IS WITHIN 3 FEET OF SUBGRADE. IF GREATER THAN 3 FEET, USE SUITABLE EXISTING ONSITE BACKFILL.





PIPE BEDDING IN ROCK FOR PVC, POLYPROPYLENE, RCP & DIP PIPE LAST REVISION:

January 2020

PLATE NO.

INDEX City Plate No. **SECTION 5 - SERVICES** SER-1 SEWER AND WATER SERVICE CONNECTIONS SER-1A SEWER AND WATER SERVICE CONNECTIONS SER-1B MULTI FAMILY (SLAB ON GRADE) SEWER & WATER SERVICE **CONNECTIONS** SER-2 SERVICE RISER PVC SERVICE LINE CLEANOUTS SER-3 SER-4 SERVICE CONNECTION TO RCP SER-5 **DIP IRRIGATION SERVICE** SER-5A DIP IRRIGATION SERVICE BY PRIVATE CONTRACTOR SER-6 DIP RISER CONNECTION TO RCP SER-7 PRIVATE CONNECTIONS TO EXISTING PUBLIC UTILITIES SER-8 CURB BOX AND CLEANOUT PROTECTION IN DRIVEWAY

4" WATER AND 6" SEWER SERVICE FOR MULTI-UNIT BUILDINGS

POLYETHYLENE IRRIGATION SERVICE BY PRIVATE CONTRACTOR

LOCATING REQUIREMENTS FOR SINGLE FAMILY HOUSES

LOCATING REQUIREMENTS FOR MULTI-UNIT BUILDINGS

2" POLYETHYLENE PIPE IRRIGATION SERVICE



SER-9

SER-9A

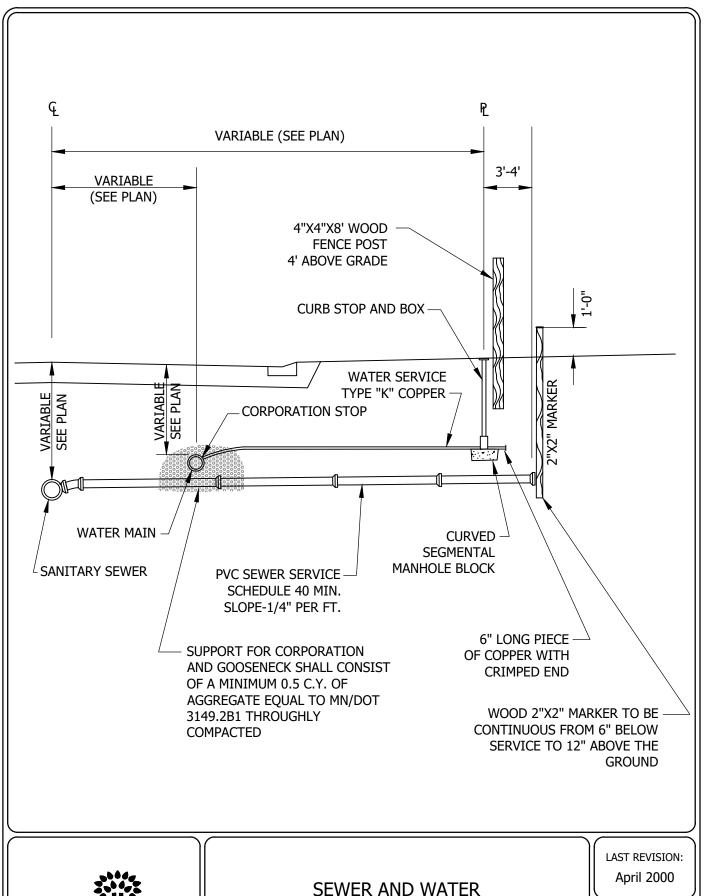
SER-9B SER-10

SER-10A

SECTION 5 - SERVICES INDEX

LAST REVISION: January 2020

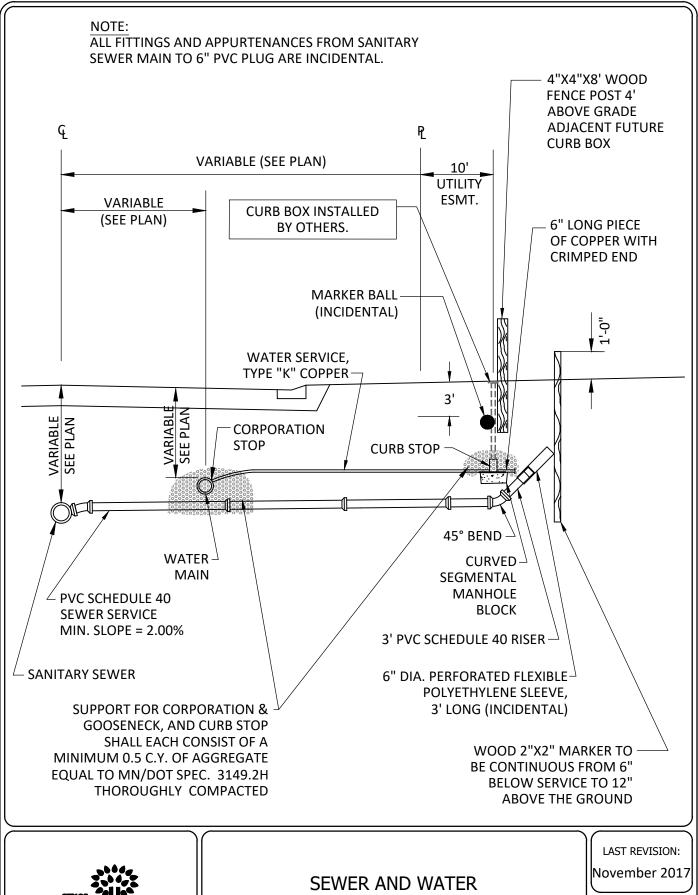
PLATE NO.





SERVICE CONNECTIONS

PLATE NO.

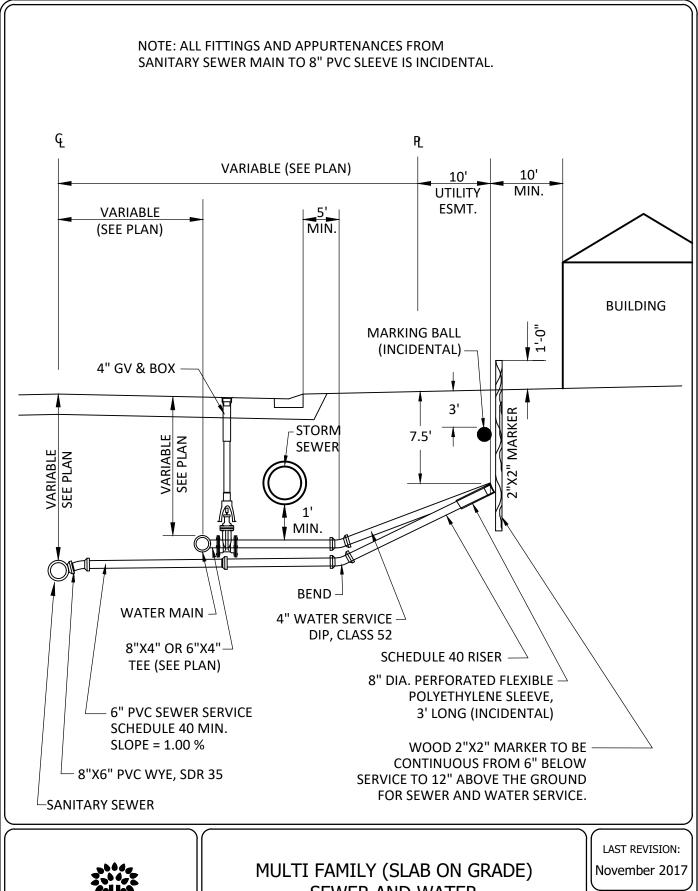




SEWER AND WATER SERVICE CONNECTIONS

PLATE NO.

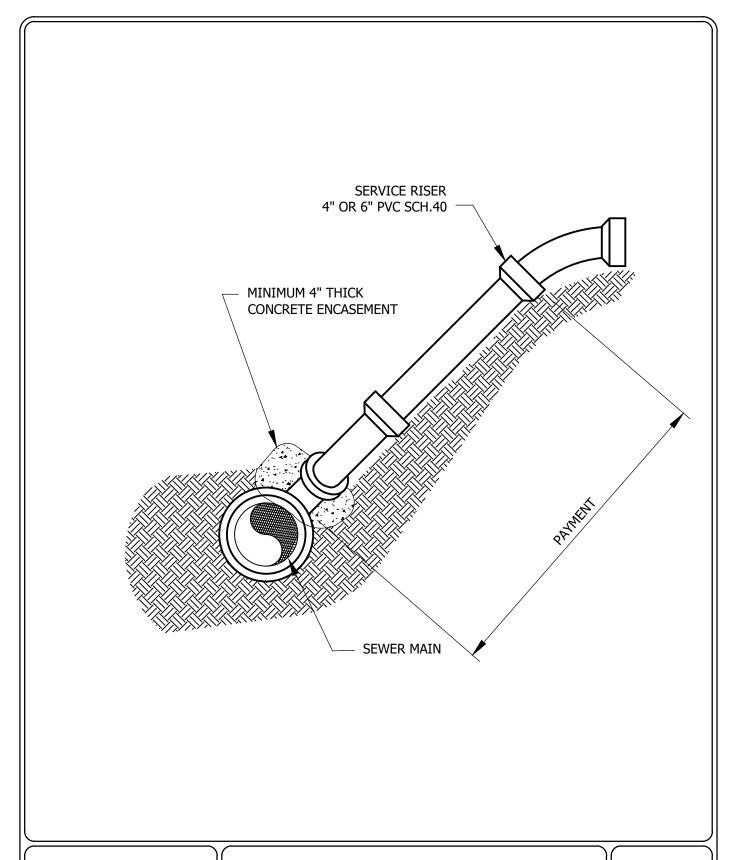
SER-1A





MULTI FAMILY (SLAB ON GRADE)
SEWER AND WATER
SERVICE CONNECTIONS

PLATE NO. SER-1B

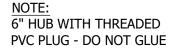




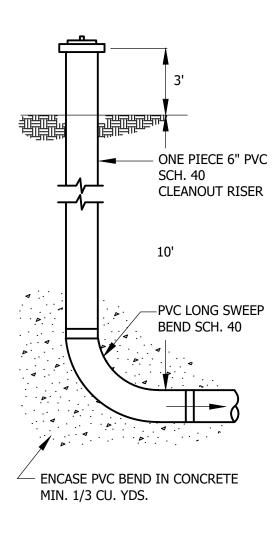
SERVICE RISER

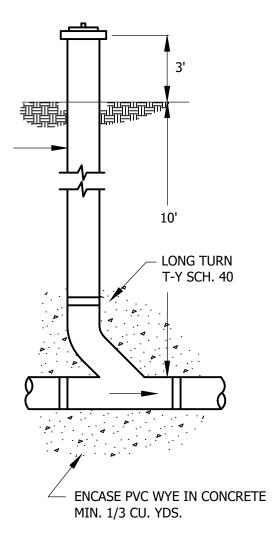
LAST REVISION:
April 2004

PLATE NO. SER-2



NOTE: ENCLOSE LONG SWEEP BEND OR COMBINATION WYE IN CONCRETE AS SHOWN.





END OF LINE CLEANOUT

IN LINE CLEANOUT

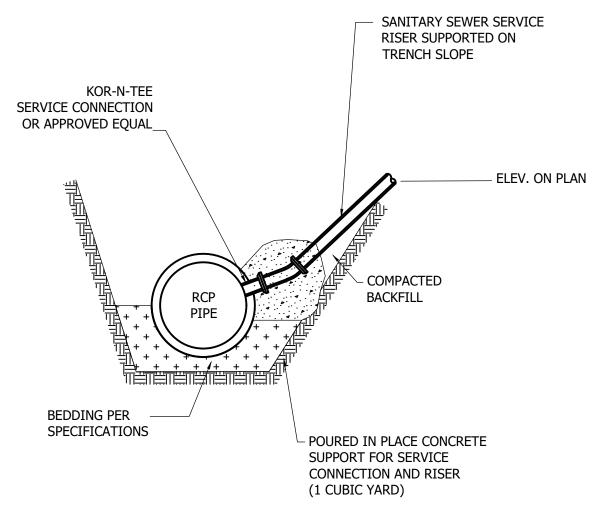


PVC SERVICE LINE CLEANOUTS

LAST REVISION:
April 2000

PLATE NO.



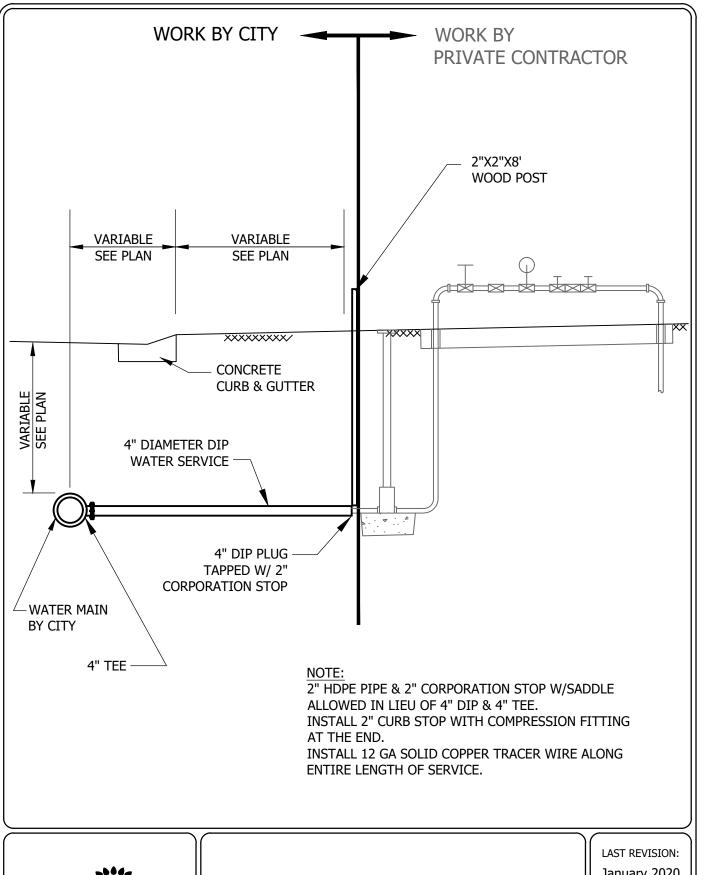




SERVICE CONNECTION TO RCP

LAST REVISION: December 2019

PLATE NO.

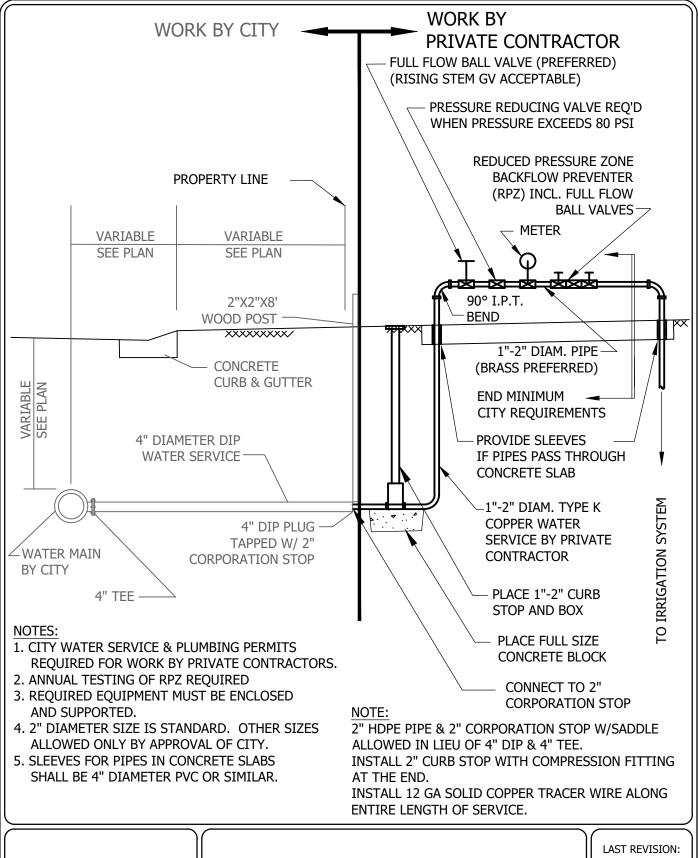




DIP IRRIGATION SERVICE

January 2020

PLATE NO.



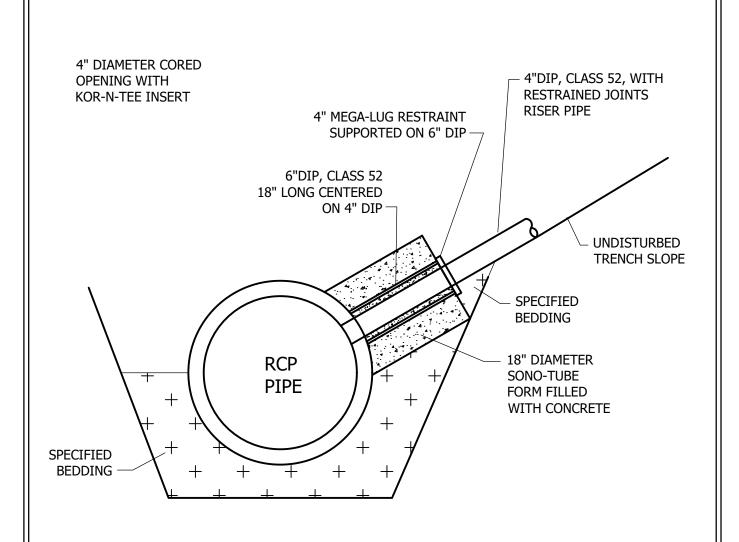


DIP IRRIGATION SERVICE BY PRIVATE CONTRACTOR

January 2020

PLATE NO.

SER-5A

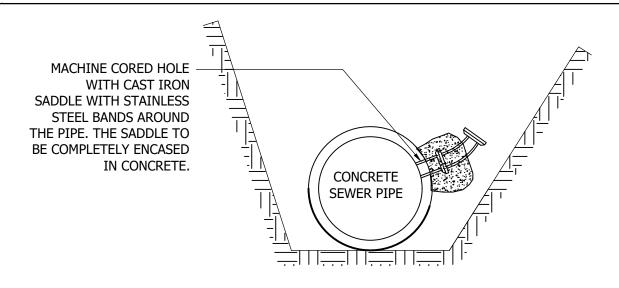




DIP RISER CONNECTION TO RCP

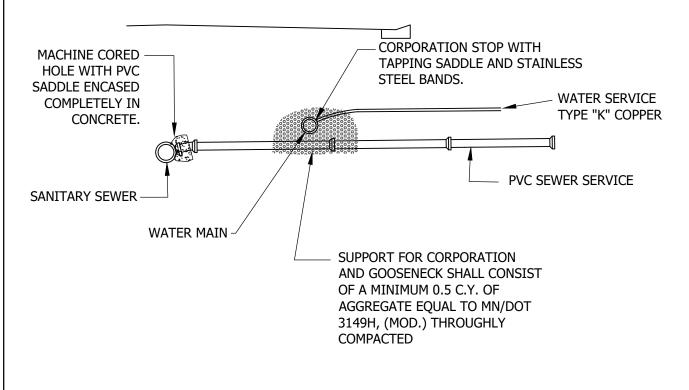
LAST REVISION: April 2000

PLATE NO.



CONCRETE SANITARY OR STORM SEWER

NOTE: SERVICE CONNECTIONS TO BE AT 2 O'CLOCK OR 10 O'CLOCK POSITION.



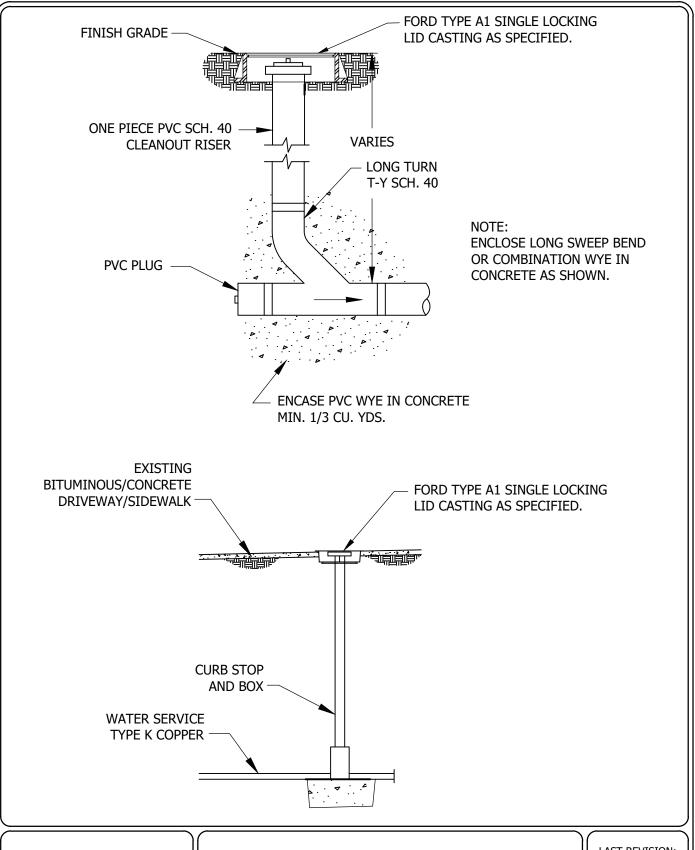
WATER AND PVC SANITARY SEWER



PRIVATE CONNECTIONS TO EXISTING PUBLIC UTILITIES

LAST REVISION: April 2000

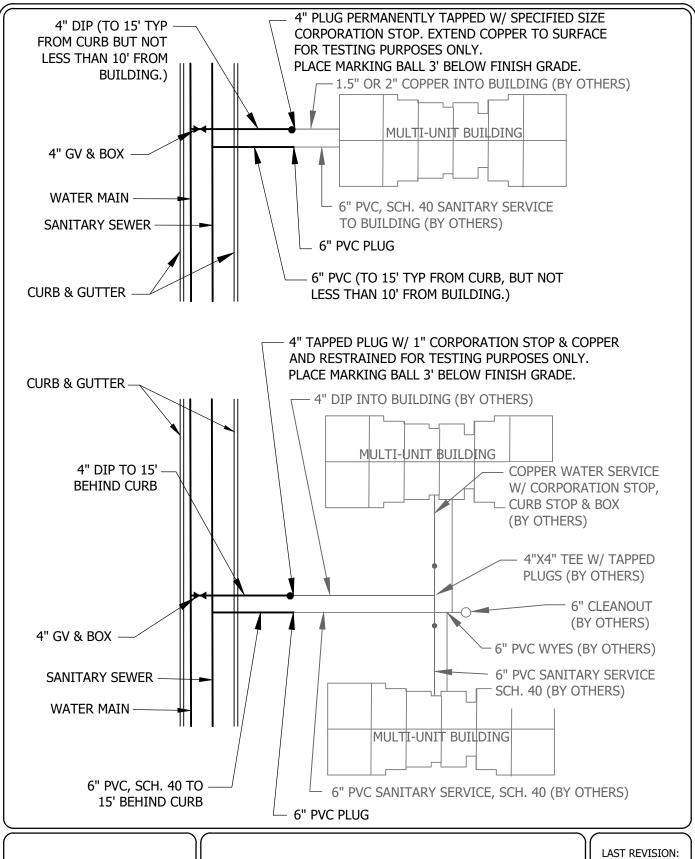
PLATE NO.





CURP BOX AND CLEANOUT PROTECTION IN DRIVEWAY LAST REVISION: March 2008

PLATE NO.

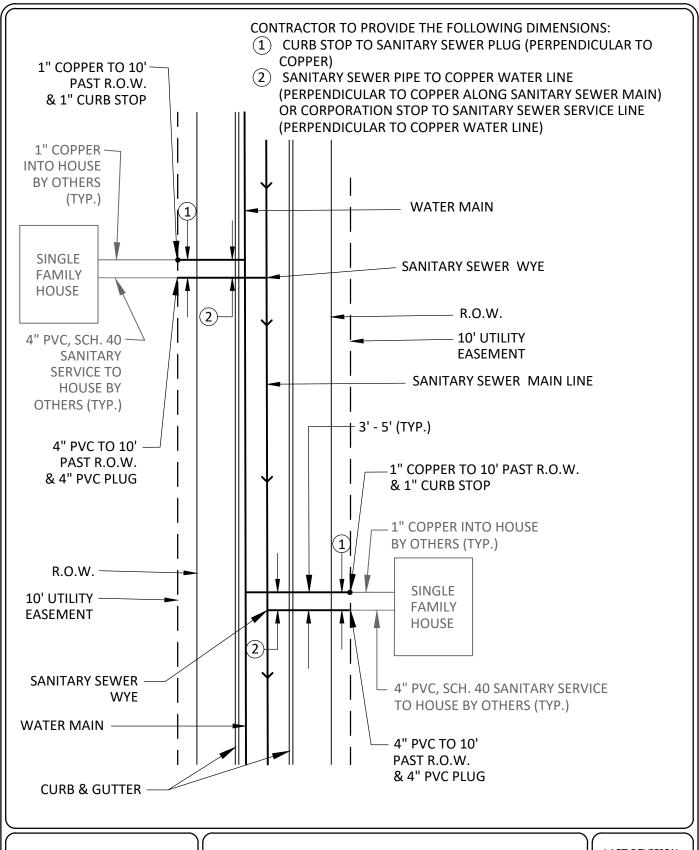




4" WATER AND 6" SEWER SERVICE FOR MULTI-UNIT BUILDINGS

February 2012

PLATE NO.



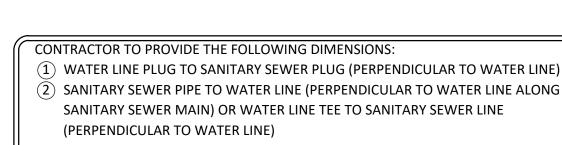


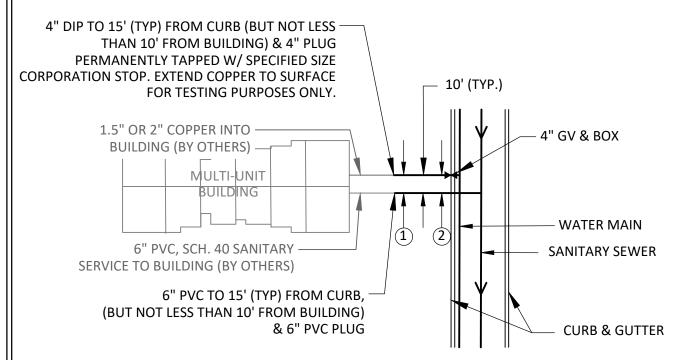
LOCATING REQUIREMENTS FOR SINGLE FAMILY HOUSES

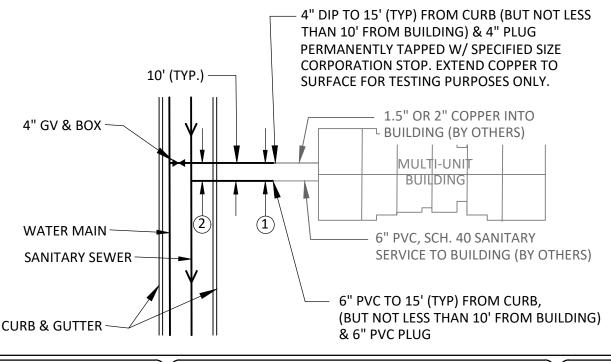
LAST REVISION: January 2018

PLATE NO.

SER-9A







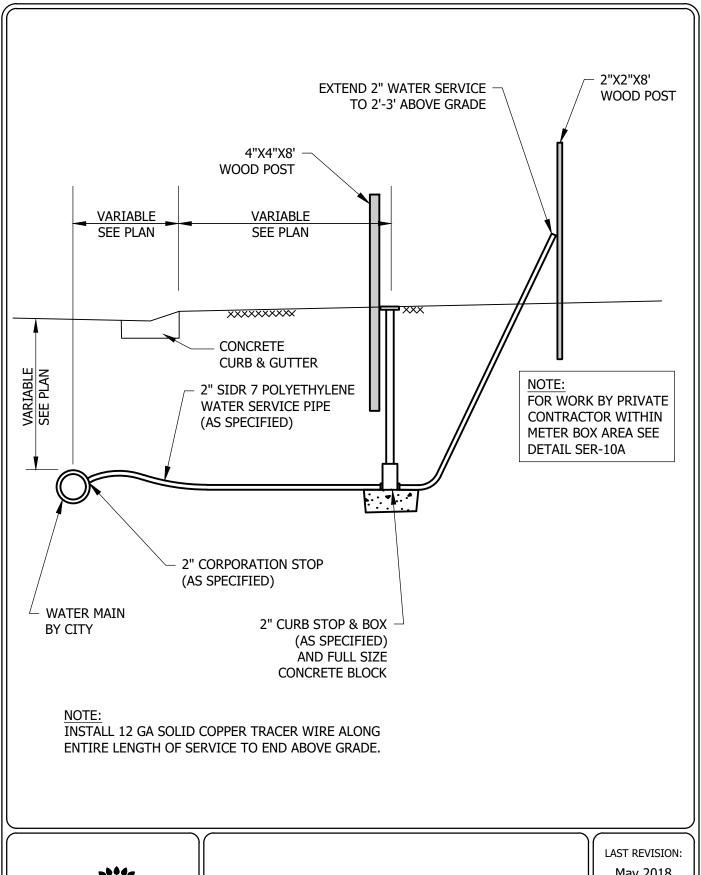


LOCATING REQUIREMENTS FOR MULTI-UNIT BUILDINGS

LAST REVISION: January 2018

PLATE NO.

SER-9B

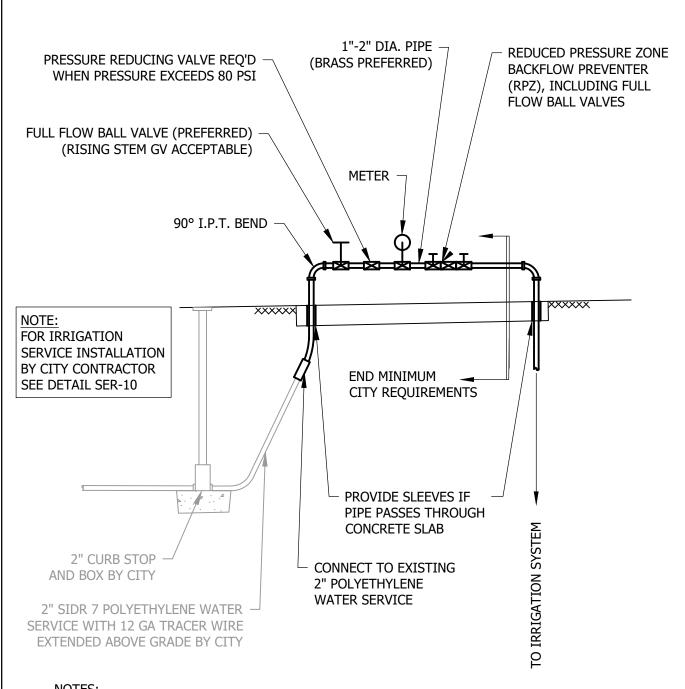




2" POLYETHYLENE PIPE **IRRIGATION SERVICE**

May 2018

PLATE NO. **SER-10**



NOTES:

- 1. CITY WATER SERVICE & PLUMBING PERMITS REQUIRED FOR WORK BY PRIVATE CONTRACTORS.
- 2. ANNUAL TESTING OF RPZ REQUIRED
- 3. REQUIRED EQUIPMENT MUST BE ENCLOSED AND SUPPORTED.
- 4. 2" DIAMETER SIZE IS STANDARD. OTHER SIZES ALLOWED ONLY BY APPROVAL OF CITY.
- 5. SLEEVES FOR PIPES IN CONCRETE SLABS SHALL BE 4" DIAMETER PVC OR SIMILAR.
- 6. ATTACH TRACER WIRE TO FITTINGS INSIDE METER BOX.



POLYETHYLENE IRRIGATION SERVICE BY PRIVATE CONTRACTOR

LAST REVISION: May 2018

PLATE NO. SER-10A

City	INDEX
Plate	
<u>No.</u>	SECTION 6 - STREETS
STR-1	CURB AND GUTTER
STR-2	CURB AND GUTTER TRANSITIONS
STR-3	SURMOUNTABLE CURB AND GUTTER CONSTRUCTION AT CATCH BASIN
STR-4	B618 CURB AND GUTTER CONSTRUCTION AT CATCH BASIN
STR-5	PEDESTRIAN CURB RAMP - GENERAL LOCATION
STR-6	DOUBLE PEDESTRIAN CURB RAMP - GENERAL LOCATION
STR-8	CONCRETE DRIVEWAY APRON - COMMERCIAL
STR-9	CONCRETE DRIVEWAY APRON - RESIDENTIAL
STR-10	CONCRETE VALLEY GUTTER
STR-11	PERMANENT BARRICADE
STR-12	PRIVATE UTILITY CONDUIT CROSSING
STR-12A	DIP IRRIGATION CONDUIT CROSSING
STR-12B	PRIVATE UTILITY CONDUIT CROSSING - RURAL SECTION
STR-13	MAIL BOX INSTALLATION
STR-14	TYPICAL RESIDENTIAL STREET SECTION
STR-15	TYPICAL PRIVATE STREET SECTION
STR-15A	TYPICAL RESIDENTIAL STREET SECTION - RURAL ESTATE
STR-16	BITUMINOUS JOINT SAW AND SEAL
STR-16A	BITUMINOUS JOINT SAW AND SEAL WITH OVER BAND
STR-17	TYPICAL BITUMINOUS TRAIL INTERSECTION
STR-18	CATCH BASIN AND MANHOLE ADJUSTMENT
	(HIGH DENSITY POLYETHYLENE RINGS)
STR-18A	MANHOLE AND GATE VALVE ADJUSTMENT IN PAVEMENT
STR-19	STREET NAME BLADE SIGNS - PUBLIC STREETS
STR-20	STREET NAME BLADE SIGNS - PRIVATE STREETS
STR-21	RURAL ROADWAY STREET AND COMMERCIAL ENTRANCE
STR-22	RURAL ROADWAY STREET AND COMMERCIAL ENTRANCE
STR-23	STRUCTURE MARKER SIGN
STR-24	FUTURE ROAD EXTENSION SIGN
STR-25	TYPICAL INTERIM RESIDENTIAL STREET SECTION
STR-26	TYPICAL SECTION FOR BITUMINOUS TRAIL AND CONCRETE SIDEWALK
STR-27	TYPICAL TRAFFIC SIGN INSTALLATION - BOULEVARD
STR-27A	TYPICAL TRAFFIC SIGN INSTALLATION - STREET NAME BLADE SIGN
STR-28	TYPICAL TRAFFIC SIGN INSTALLATION - MEDIAN
STR-29	CONCRETE CURB REPLACEMENT DRIVE LOCATION (BITUMINOUS D/W APRON)
STR-30	CONCRETE CURB REPLACEMENT DRIVE LOCATION (CONCRETE D/W APRON)
STR-31	CONCRETE CURB REPLACEMENT NON DRIVEWAY LOCATION



SECTION 6 - STREETS INDEX

LAST REVISION:
December 2019

PLATE NO.

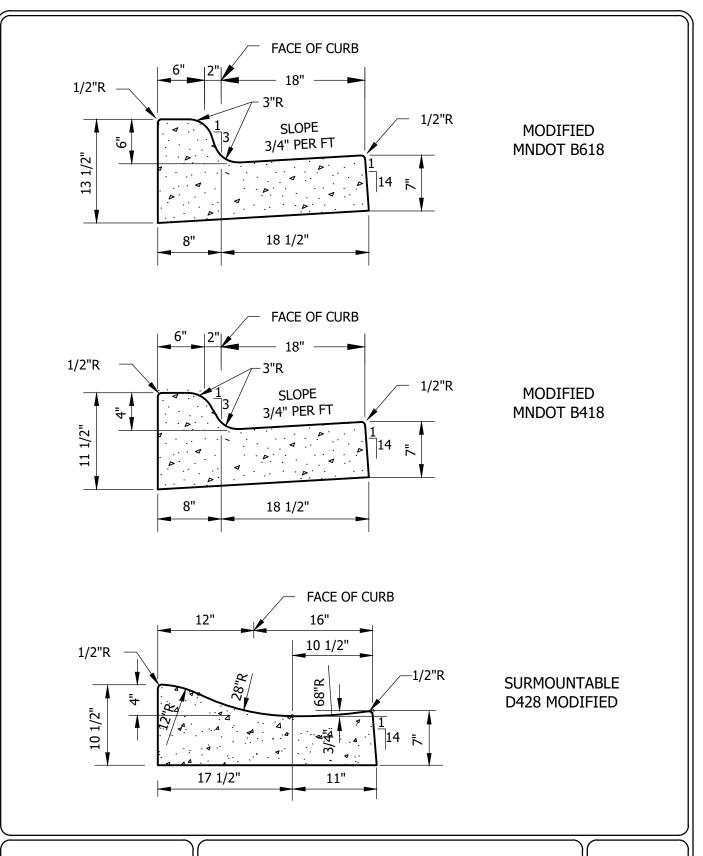
City	INDEX
Plate	
<u>No.</u>	SECTION 6 - STREETS
STR-32	CROSSWALK SIGNAGE DETAIL
STR-33	CONCRETE CURB PROTECTION
STR-34	STREET TYPICAL SECTION FOR RESIDENTIAL STREETS
STR-35	STRIPING DETAIL WITH CONCRETE MEDIAN
STR-36	STRIPING DETAIL WITH TWO WAY LEFT TURN LANES
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STR-38	CONCRETE APPROACH NOSE DETAIL
STR-39	PARKING BAY NOSE DETAIL
STR-40	HIGH CAPACITY CONCRETE APRON (SURMOUNTABLE CURB)
STR-41	HIGH CAPACITY CONCRETE APRON (B618 CURB)
STR-42	CITY PROPERTY MONUMENT
STR-43	RURAL ROADWAY DRIVEWAY CULVERT



SECTION 6 - STREETS INDEX

LAST REVISION:
December 2019

PLATE NO.

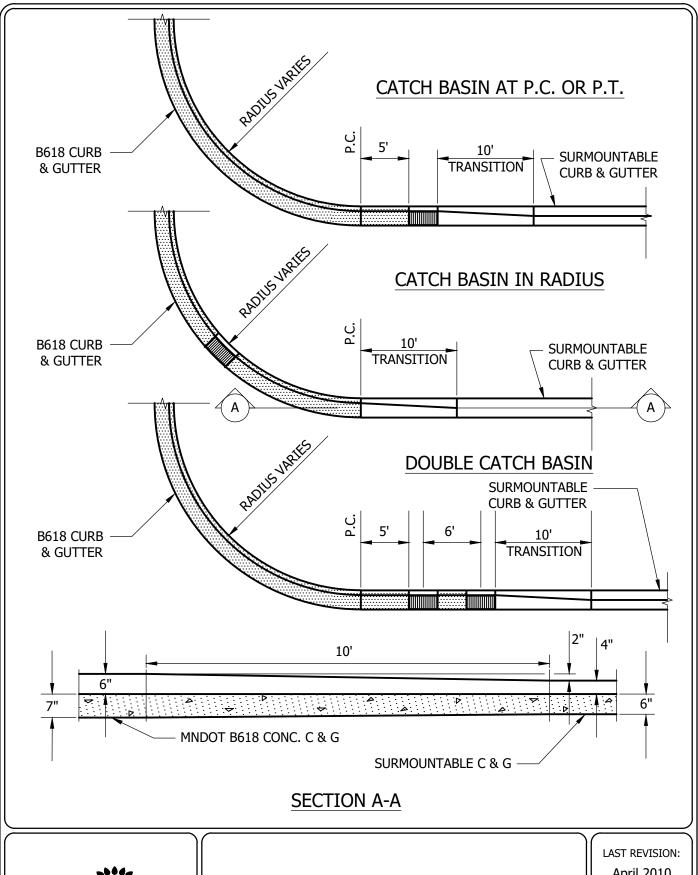




CURB AND GUTTER

LAST REVISION: January 2018

PLATE NO. STR-1

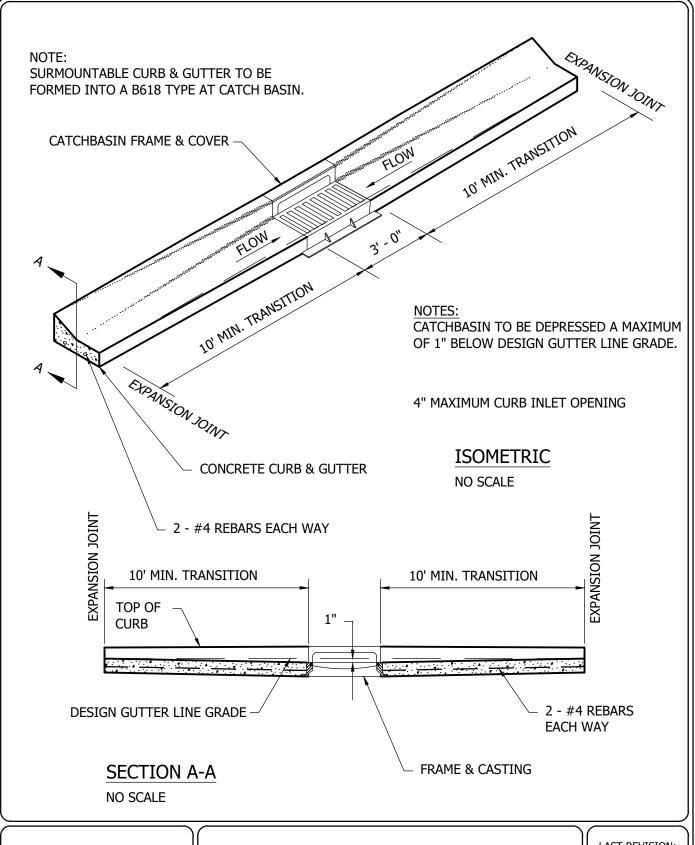




CONCRETE CURB & GUTTER TRANSITIONS

April 2010

PLATE NO.

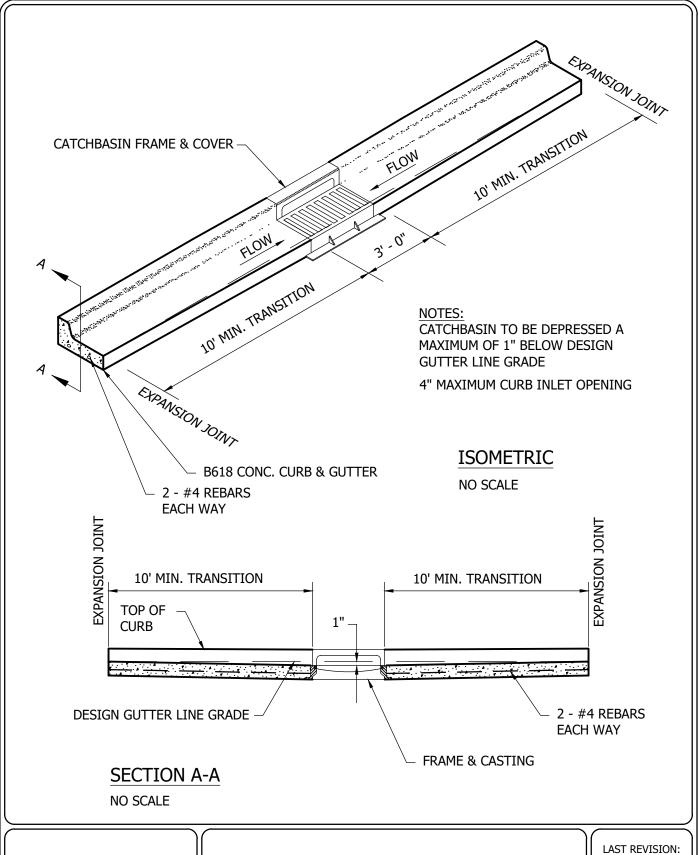




SURMOUNTABLE CURB & GUTTER CONSTRUCTION AT CATCH BASIN

LAST REVISION: December 2020

PLATE NO.

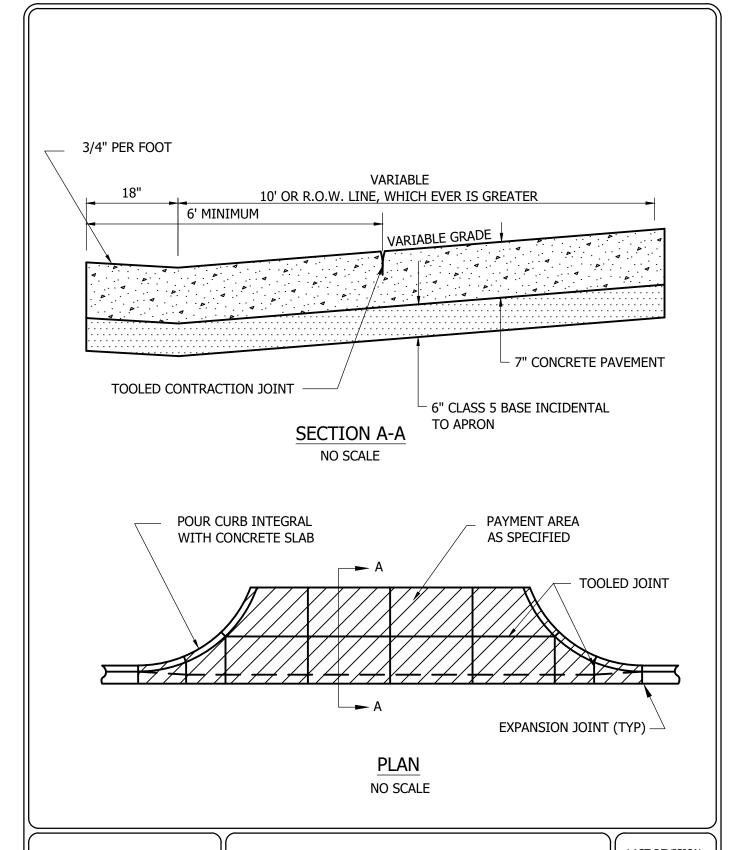




B618 CURB & GUTTER CONSTRUCTION AT CATCH BASIN

December 2020

PLATE NO.

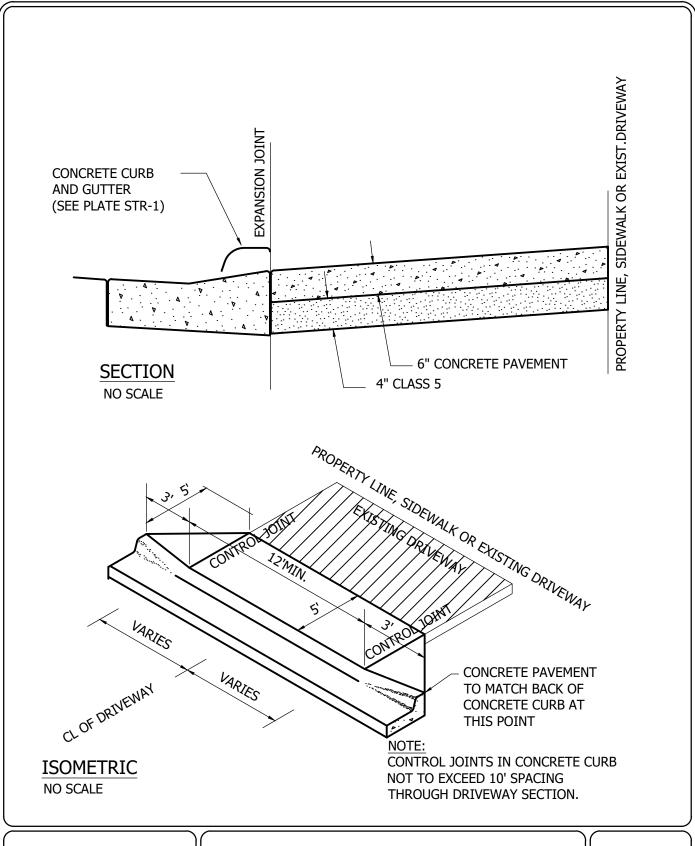




CONCRETE DRIVEWAY APRON COMMERCIAL

LAST REVISION: December 2019

PLATE NO.

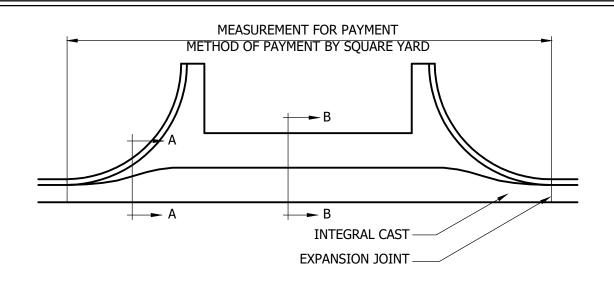


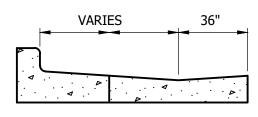


CONCRETE DRIVEWAY APRON -**RESIDENTIAL**

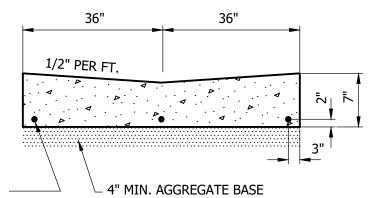
LAST REVISION: March 2008

PLATE NO.





SECTION A-A THRU B618 C & G



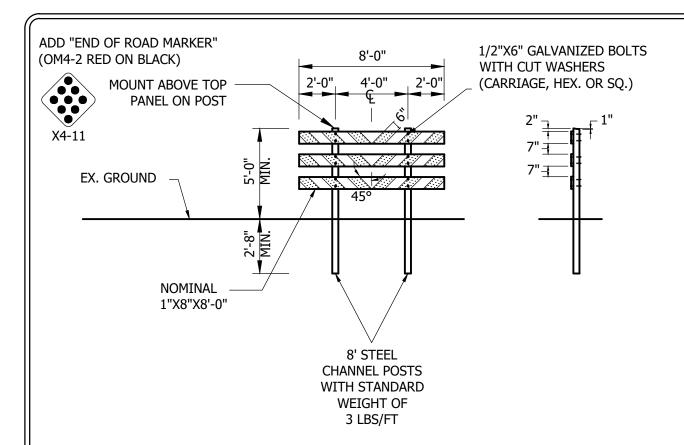
NO. 4 REBAR (TYP)

SECTION B-B THRU CONCRETE GUTTER



CONCRETE VALLEY GUTTER

LAST REVISION:
November 2019



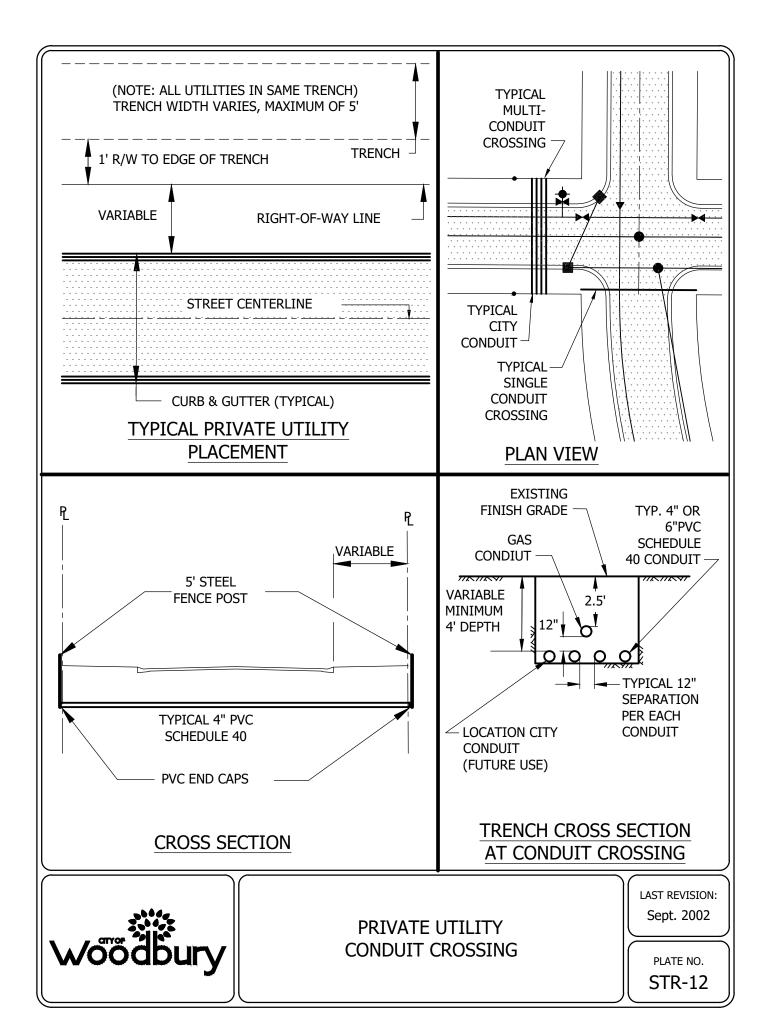
NOTES:

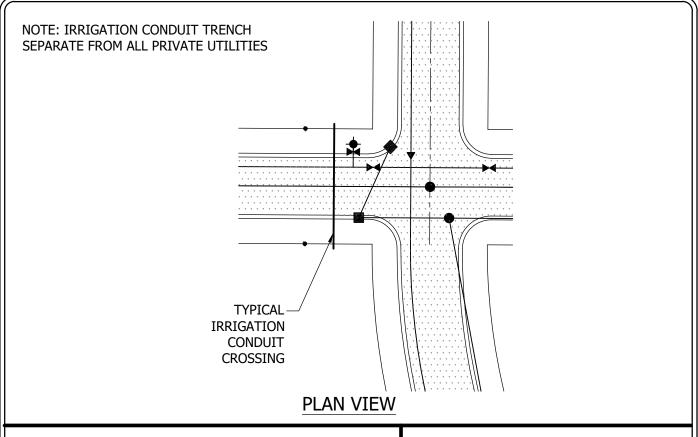
- 1. THE PLACEMENT OF THE BARRICADE SHALL BE 10'-0" FROM THE END OF THE BITUMINOUS ROAD WITH THE BARRICADE CENTERED ON THE ROADWAY FACING THE FLOW OF TRAFFIC. BARRICADES SHALL BE PLACED WITH MAXIMUM 6' SPACING AND SHALL SPAN ENTIRE ROADWAY WIDTH.
- 2. ONLY ONE "END OF ROAD MARKER" REQUIRED PER STREET.

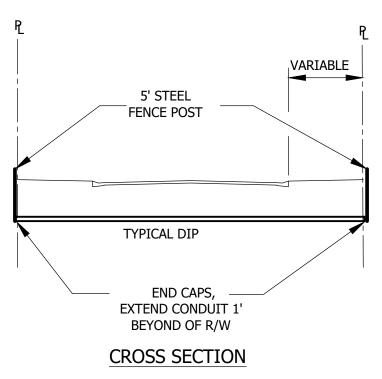


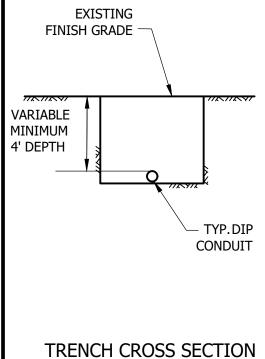
PERMANENT BARRICADE

LAST REVISION: February 2012







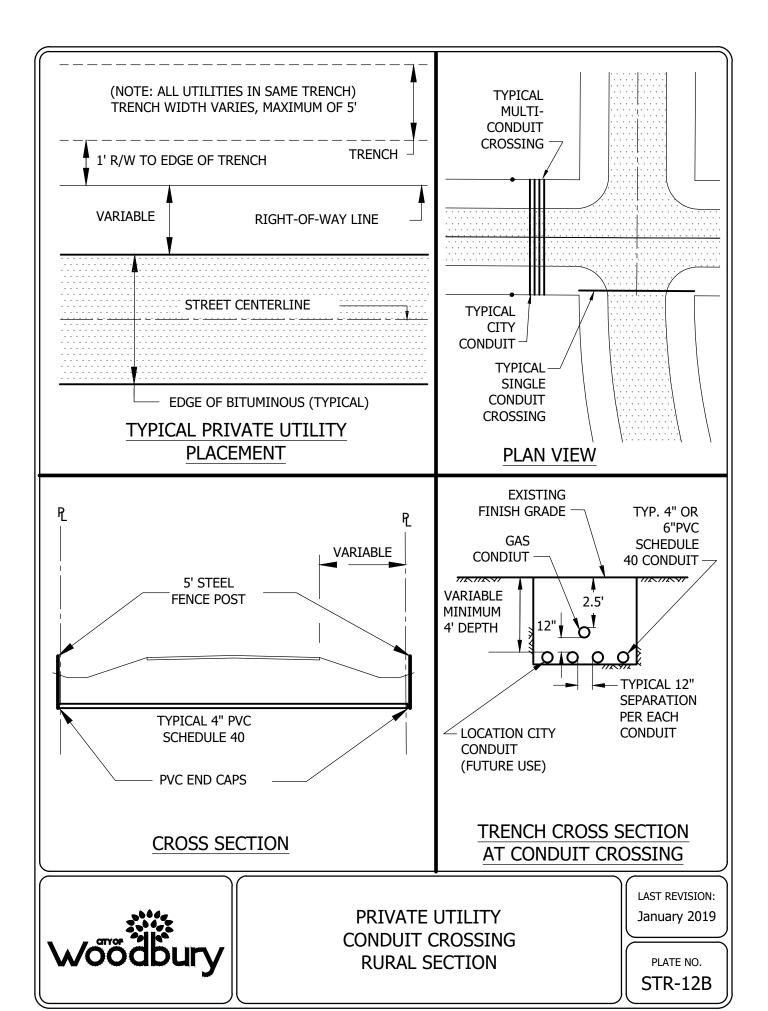


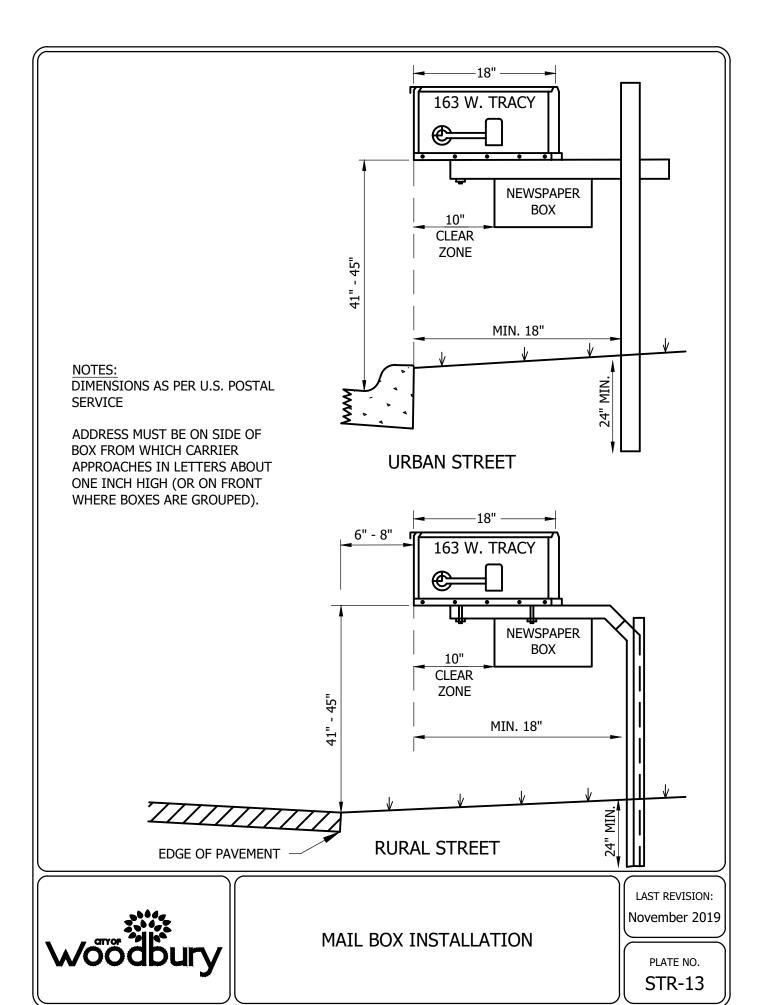
AT CONDUIT CROSSING



DIP IRRIGATION CONDUIT CROSSING

LAST REVISION: December 2016





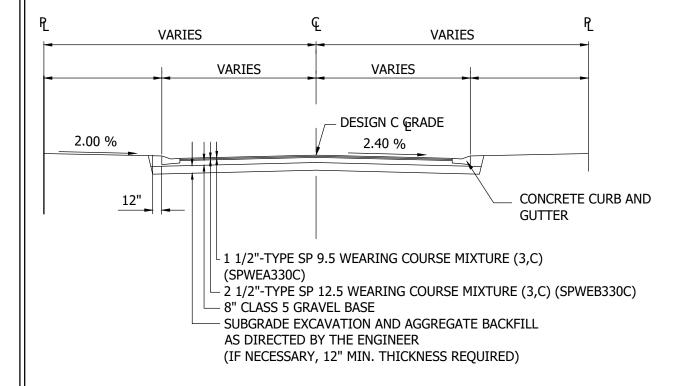
* SEE STREET LAYOUT STANDARD DETAIL PLATES Œ DESIGN Ç GRADE - 0.5' 2.00% 2.40 % CONCRETE CURB AND 12" **GUTTER** TOP OF SIDEWALK (BACK EDGE) TO BE 0.5' ABOVE TOP OF CURB 1 1/2"-TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) (SPWEA330C) 2 1/2"-TYPE SP 12.5 WEARING COURSE MIXTURE (3,C) (SPWEB330C) 8" CLASS 5 GRAVEL BASE SUBGRADE EXCAVATION AND AGGREGATE BACKFILL AS DIRECTED BY THE ENGINEER (IF NECESSARY, 12" MIN. THICKNESS REQUIRED) NOTES: A. TYPICAL SECTION SHOWN IS MINIMUM RESIDENTIAL STREET REQUIREMENT. SEE SPECIFICATIONS FOR PROJECT SPECIFIC DETAILS. B. ALL INTERSECTION RADII ARE 15' TO FACE OF CURB UNLESS NOTED OTHERWISE.



TYPICAL RESIDENTIAL STREET SECTION

LAST REVISION: February 2015

* SEE STREET TYPICAL DETAIL PLATES



NOTE: 1. TYPICAL SECTION SHOWN IS MINIMUM RESIDENTIAL STREET REQUIREMENT. SEE SPECIFICATIONS FOR PROJECT SPECIFIC DETAILS.

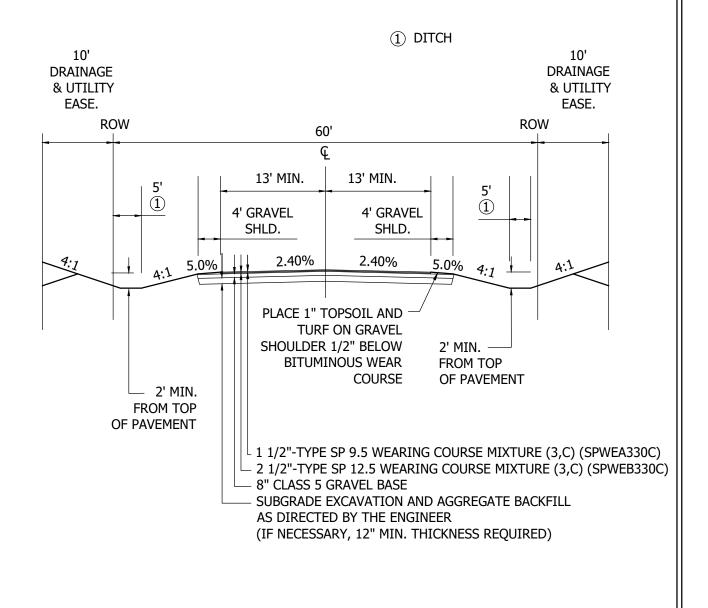


TYPICAL PRIVATE STREET SECTION

LAST REVISION: February 2015

NOTES/RECOMMENDATIONS

- 1. SEE STANDARD CITY DETAIL PLATE FOR STREET TYPICAL SECTIONS.
- 2. 7 TON ROAD DESIGN
- 3. DRIVEWAY CULVERTS SHALL BE MINIMUM 18", 30' LENGTH WITH APRONS (HOMEOWNER RESPONSIBLE FOR CULVERT MAINTINANCE, UNLESS PART OF CITY'S DRAINAGE SYSTEM).

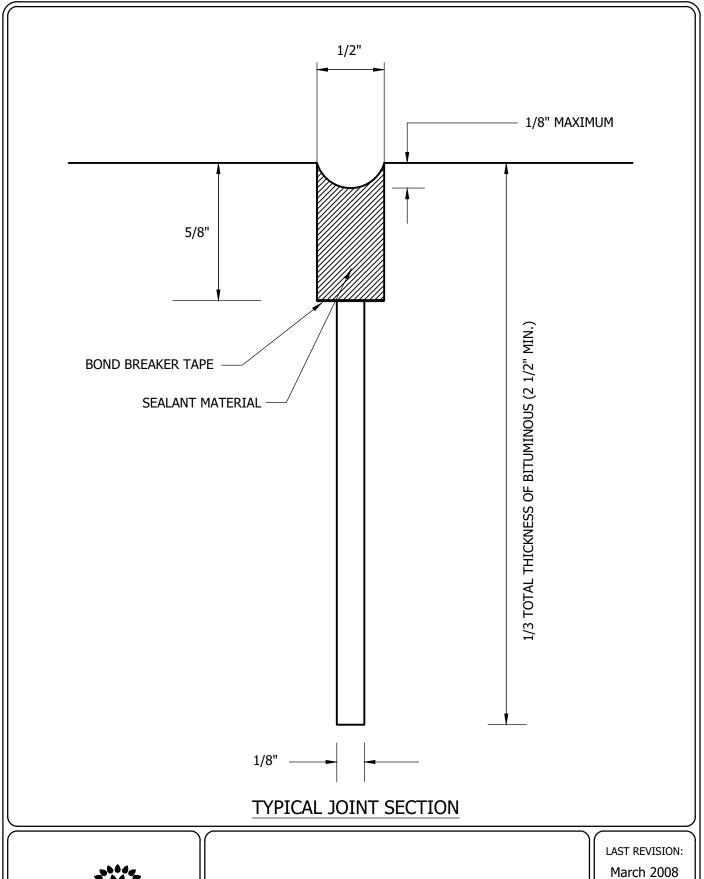


RURAL ESTATE RESIDENTIAL STREET



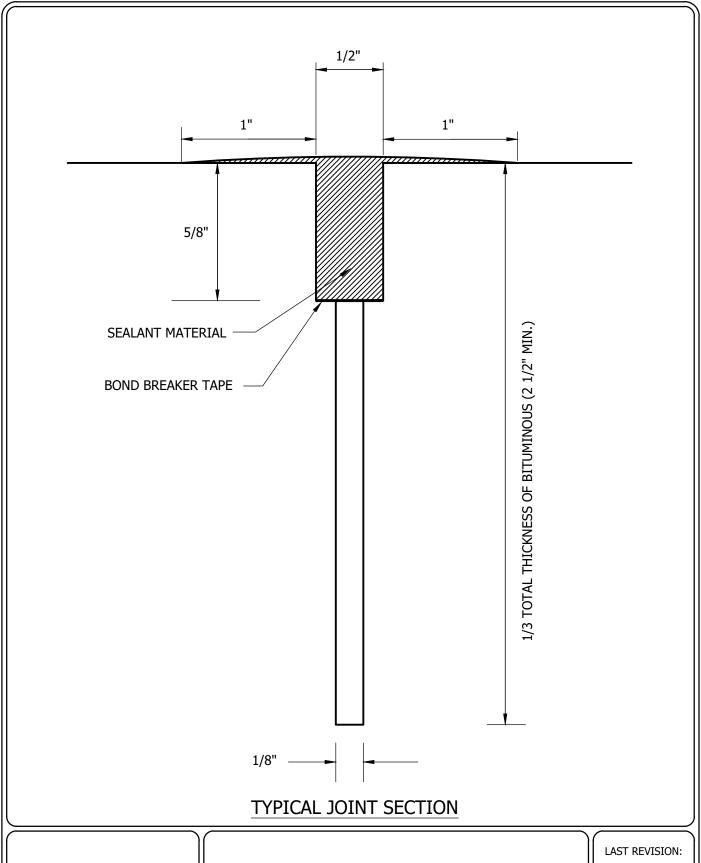
TYPICAL RESIDENTIAL STREET SECTION RURAL ESTATE

LAST REVISION: February 2015





BITUMINOUS JOINT SAW AND SEAL

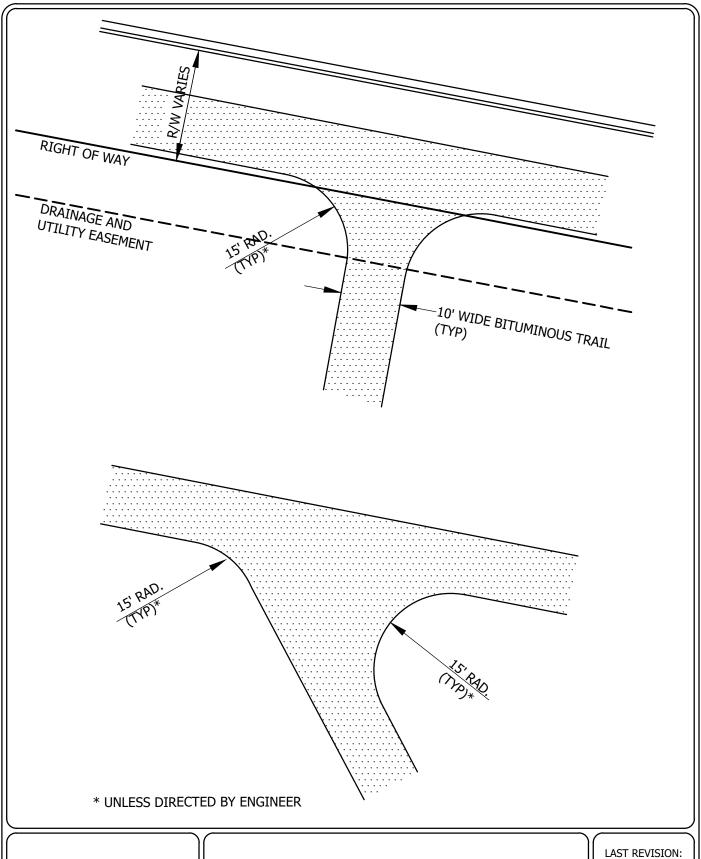




BITUMINOUS JOINT SAW AND SEAL WITH OVER BAND

June 2011

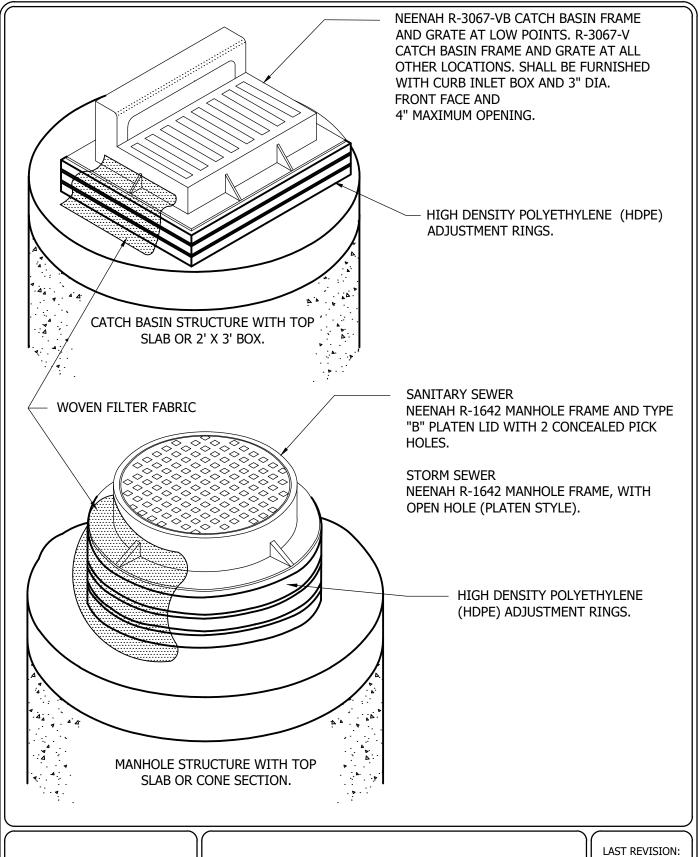
PLATE NO. STR-16A





TYPICAL BITUMINOUS TRAIL INTERSECTION

January 2020



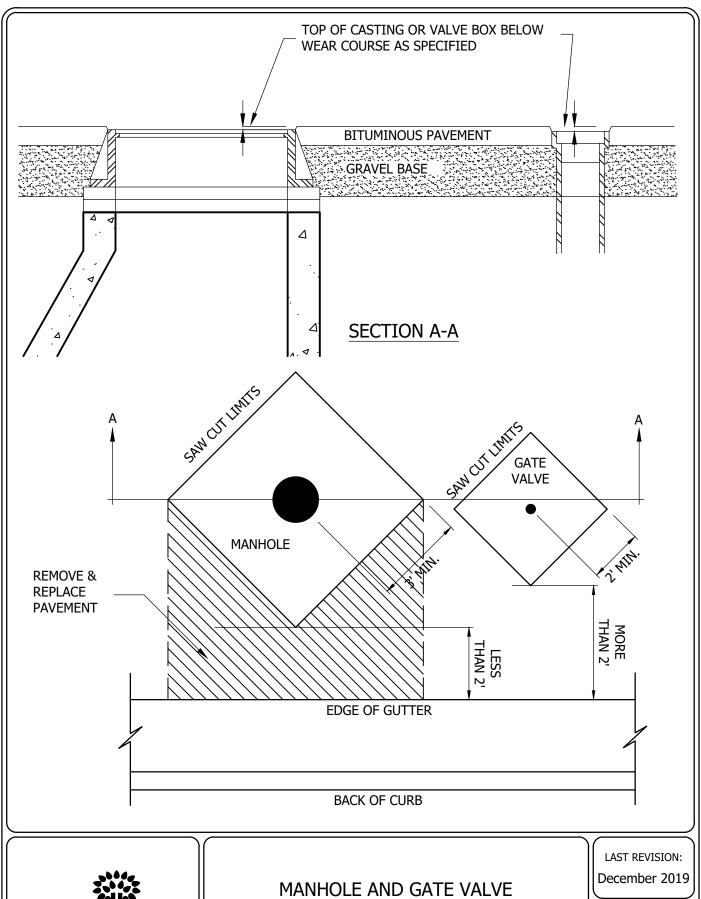


CATCH BASIN & MANHOLE ADJUSTMENT (HIGH DENSITY POLYETHYLENE RINGS)

February 2012

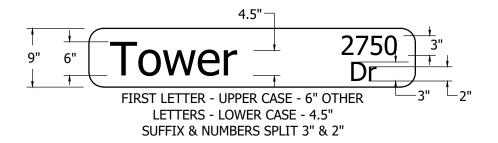
PLATE NO.

STR-18

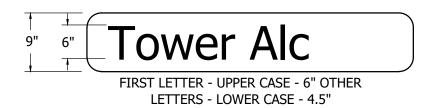




MANHOLE AND GATE VALVE ADJUSTMENT IN PAVEMENT



PUBLIC - THROUGH STREET



PUBLIC - CUL-DE-SAC

STANDARD CONSTRUCTION NOTES FOR STREET NAME SIGNS

- 1. ALL STREET SIGNS SHALL BE SINGLE-FACED FLAT BLADES.
- 2. ADDRESS NUMBERS FOR STREET NAME BLADES WILL BE PROVIDED AT A LATER DATE.
- 3. ALL PUBLIC STREET NAME BLADES SHALL BE "GREEN" IN COLOR. LETTERING ON ALL STREET NAME BLADES SHALL BE "WHITE" IN COLOR.
- 4. ALL STREET NAME BLADE SIGNS NEED TO BE SECURED USING 3/8" DRIVE RIVETS WITH NYLON WASHER TO POST, AND #34 CHERRYMATE RIVETS WITH 1-3/4" PVC SPACER ON ENDS.



STREET NAME BLADE SIGNS PUBLIC STREETS

LAST REVISION: February 2014

PLATE NO.

STR-19



PRIVATE - THROUGH STREET



FIRST LETTER - UPPER CASE - 6" OTHER LETTERS - LOWER CASE - 4.5" SUFFIX & NUMBERS SPLIT 3" & 2"

PRIVATE - CUL-DE-SAC

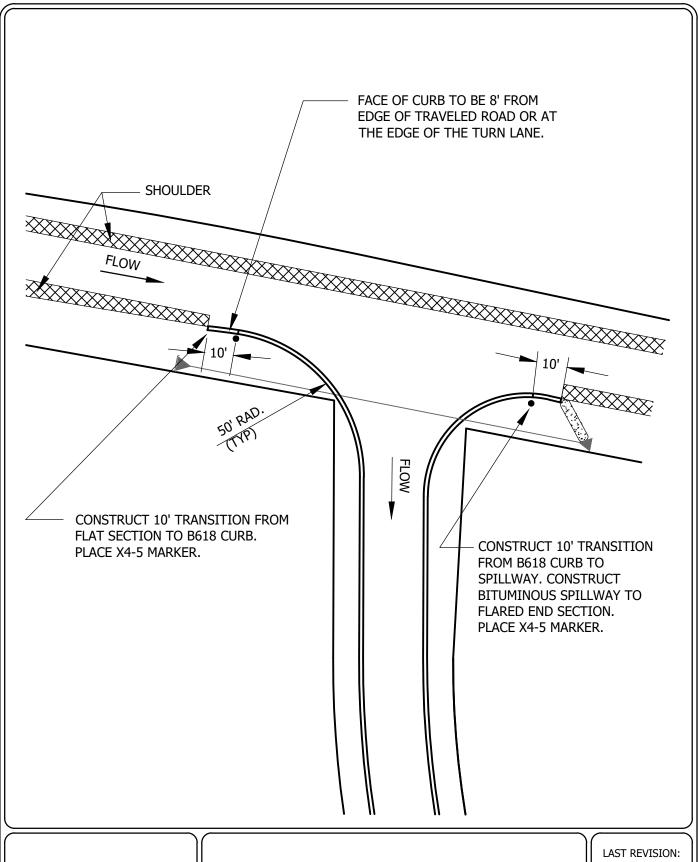
STANDARD CONSTRUCTION NOTES FOR STREET NAME SIGNS

- 1. ALL STREET SIGNS SHALL BE SINGLE-FACED FLAT BLADES
- 2. ADDRESS NUMBERS FOR STREET NAME BLADES WILL BE PROVIDED AT A LATER DATE.
- 3. ALL PRIVATE STREET NAME BLADES SHALL BE "BLUE" IN COLOR. LETTERING ON ALL STREET NAME BLADES SHALL BE "WHITE" IN COLOR.
- 4. ALL STREET NAME BLADE SIGNS NEED TO BE SECURED USING 3/8" DRIVE RIVETS WITH NYLON WASHER TO POST, AND #34 CHERRYMATE RIVETS WITH 1-3/4" PVC SPACER ON ENDS.



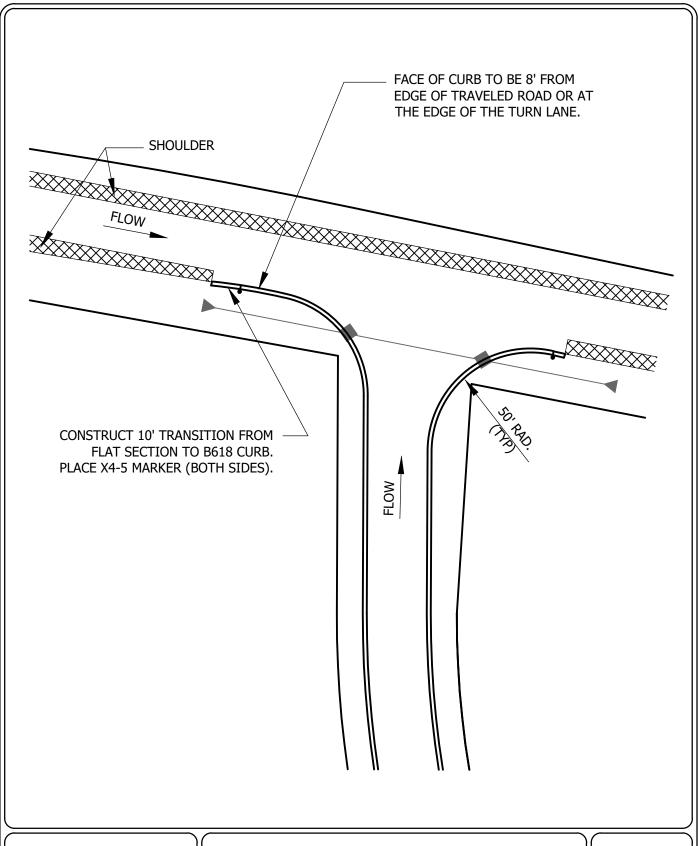
STREET NAME BLADE SIGNS PRIVATE STREETS

LAST REVISION: February 2014





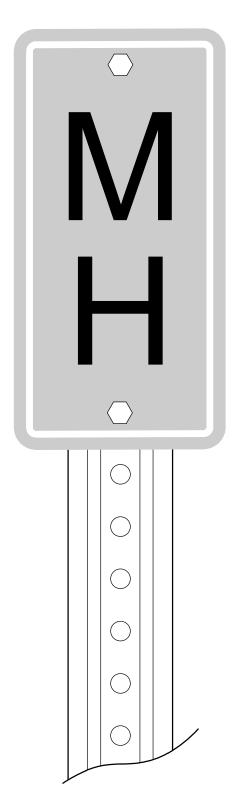
RURAL ROADWAY STREET AND COMMERCIAL ENTRANCE April 2004





RURAL ROADWAY STREET AND COMMERCIAL ENTRANCE

LAST REVISION:
April 2004



NOTES:

1. LETTERS ON SIGN VARY DEPENDING ON UTILITY SIGN IS INSTALLED ADJACENT TO (SEE SPECIFICATIONS).



STRUCTURE MARKER SIGN

LAST REVISION: December 2019

FUTURE ROAD EXTENSION



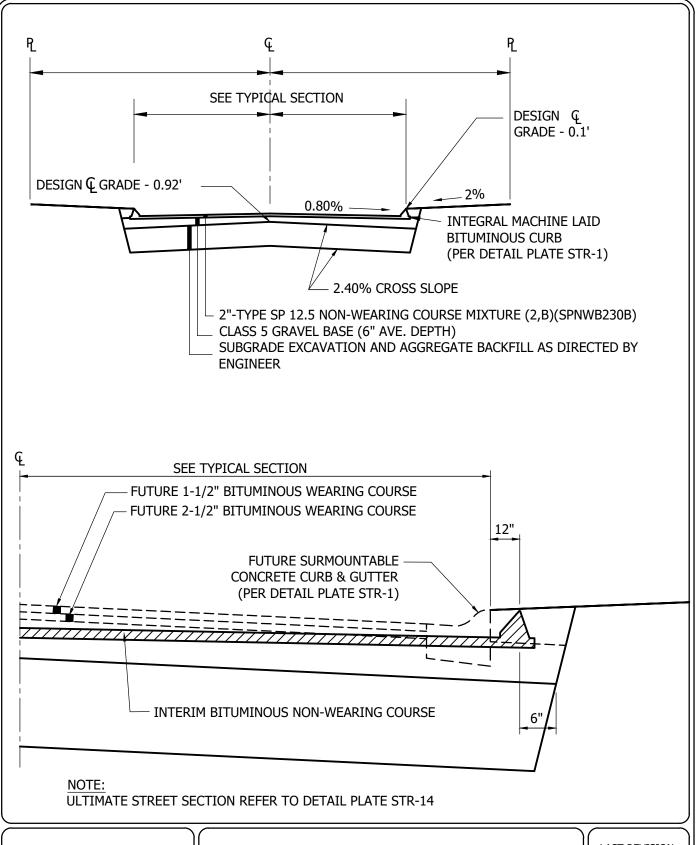
NOTES:

- 1. SIGN SIZE SHALL BE 24"x30".
- 2. LETTERS TO BE BLACK ON A WHITE BACKGROUND.
- 3. THE LEAF PORTION OF THE LOGO FOR THE CITY OF WOODBURY SHALL BE GREEN.
- 4. THE SIGN IS TO BE MOUNTED ON THE PERMANENT BARRICADE, TOP INSIDE POST.



FUTURE ROAD EXTENSION SIGN

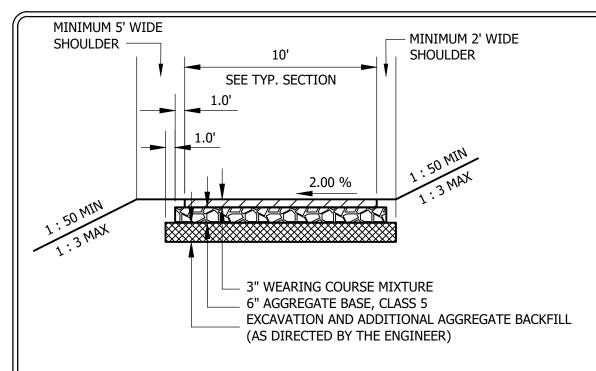
LAST REVISION: Feb. 2008



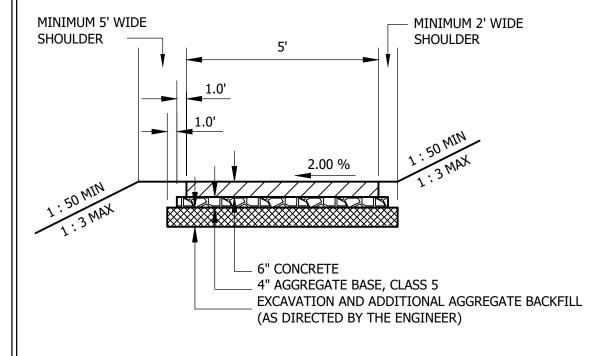


TYPICAL INTERIM RESIDENTIAL STREET SECTION

LAST REVISION: February 2015



BITUMINOUS TRAIL

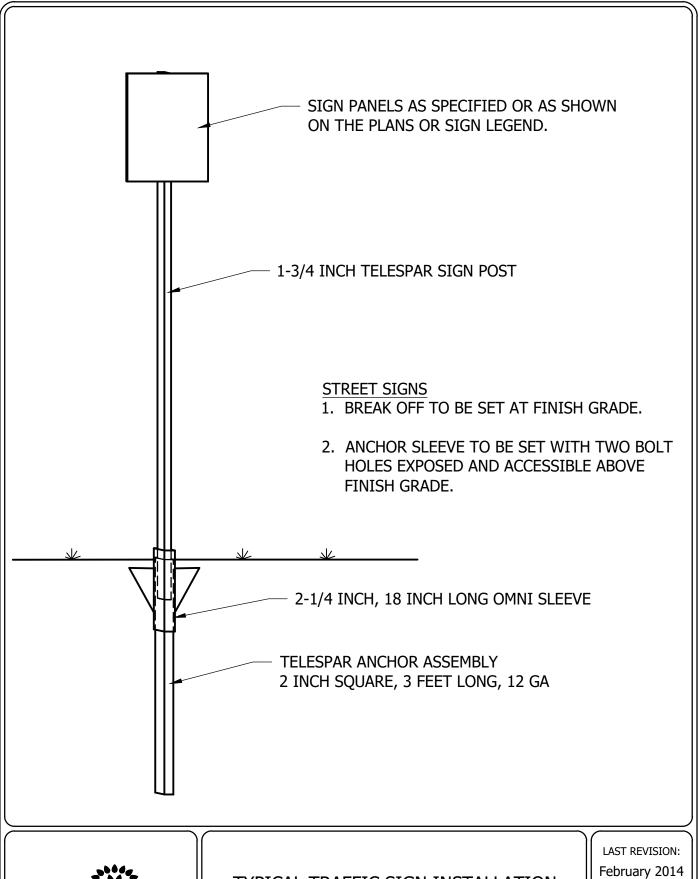


CONCRETE SIDEWALK



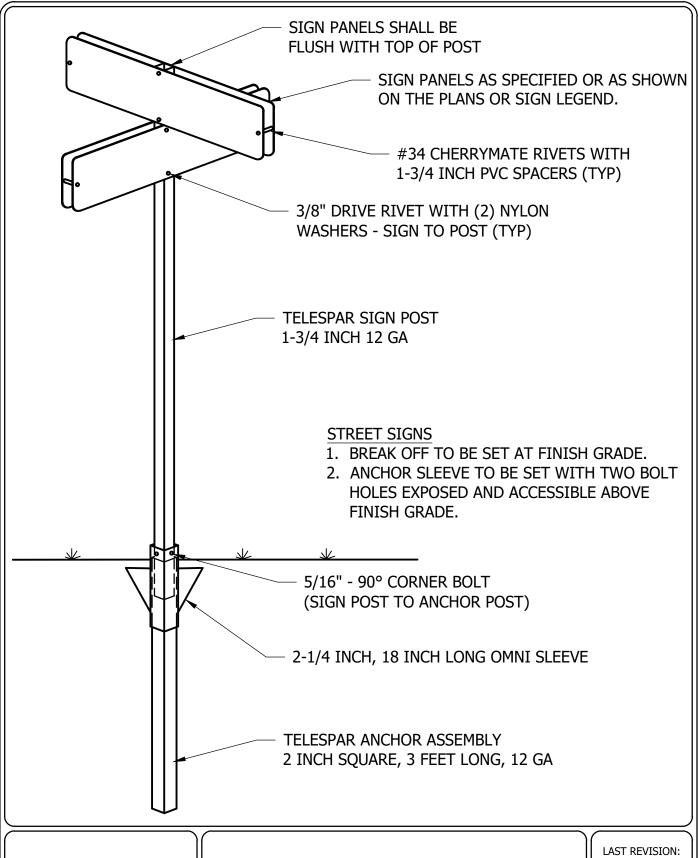
TYPICAL SECTION FOR BITUMINOUS TRAIL AND CONCRETE SIDEWALK

LAST REVISION: November 2019





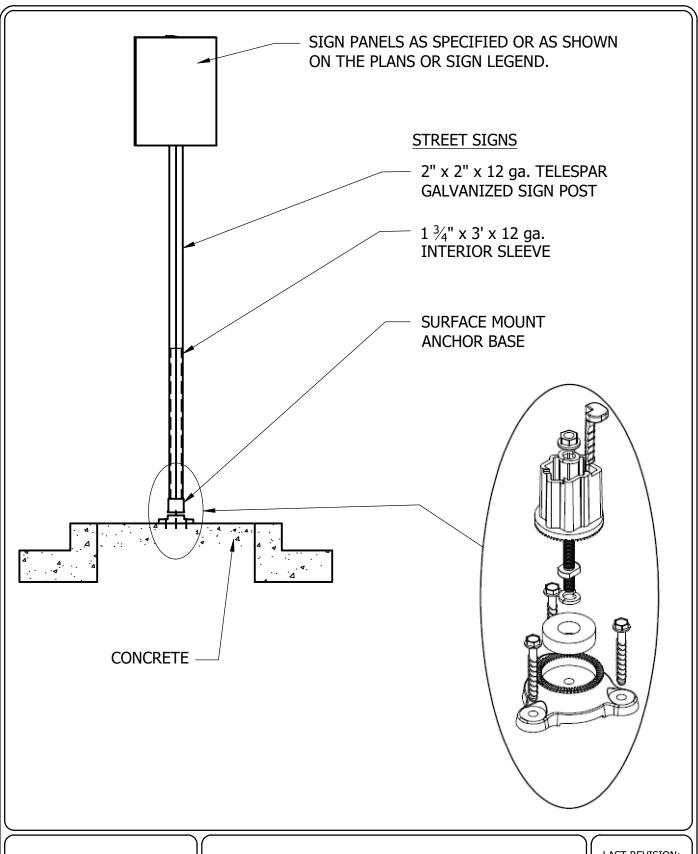
TYPICAL TRAFFIC SIGN INSTALLATION BOULEVARD





TYPICAL TRAFFIC SIGN INSTALLATION STREET NAME BLADE SIGN

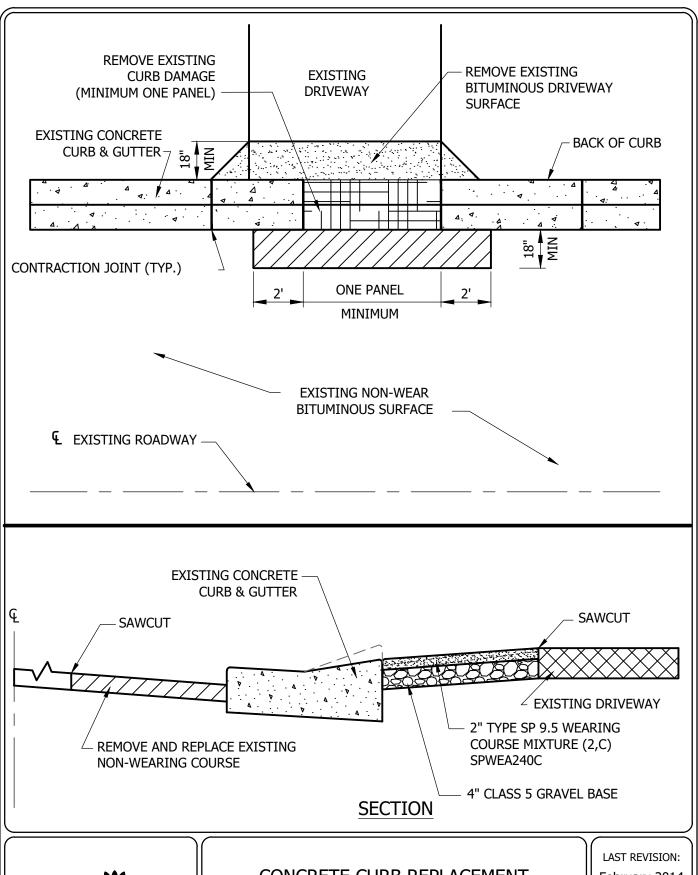
LAST REVISION: February 2014





TYPICAL TRAFFIC SIGN INSTALLATION MEDIAN

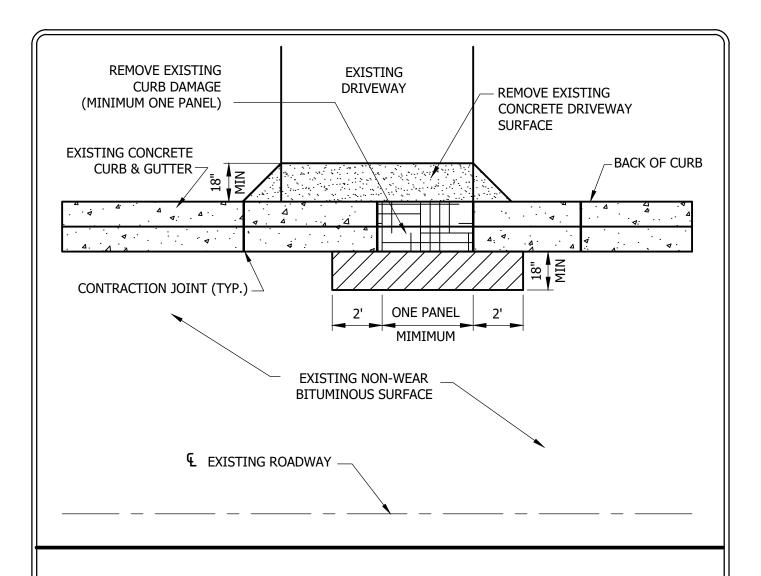
LAST REVISION: January 2016

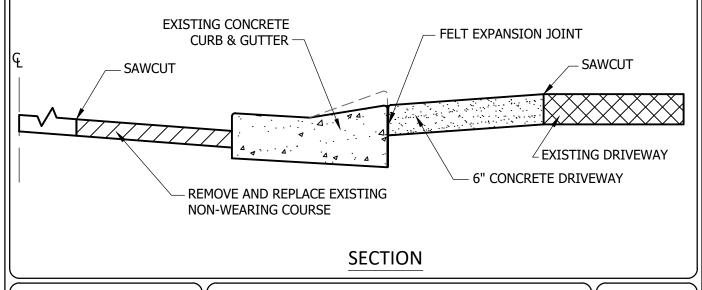




CONCRETE CURB REPLACEMENT **DRIVE LOCATION** (BITUMINOUS D/W APRON)

February 2014

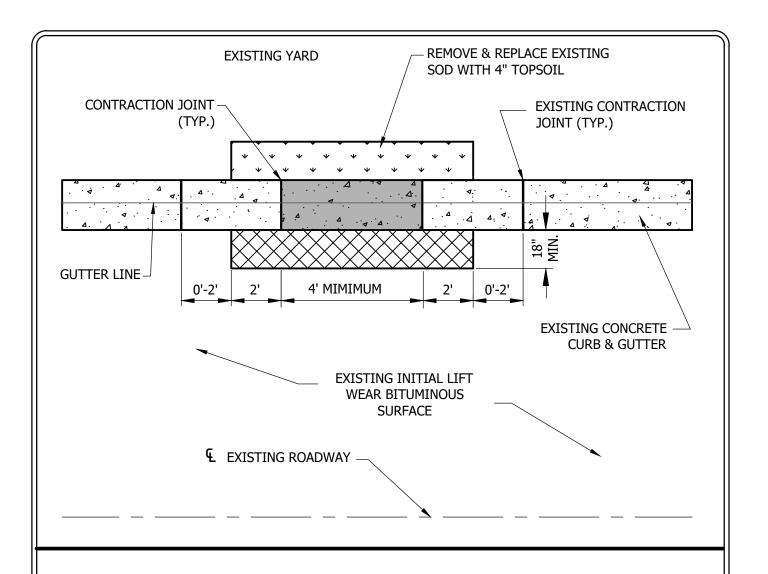


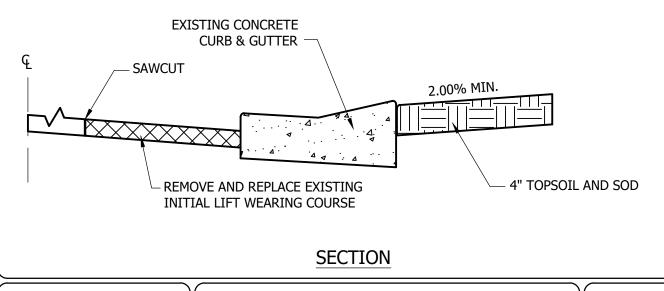




CONCRETE CURB REPLACEMENT
DRIVE LOCATION
(CONCRETE D/W APRON)

LAST REVISION: February 2014

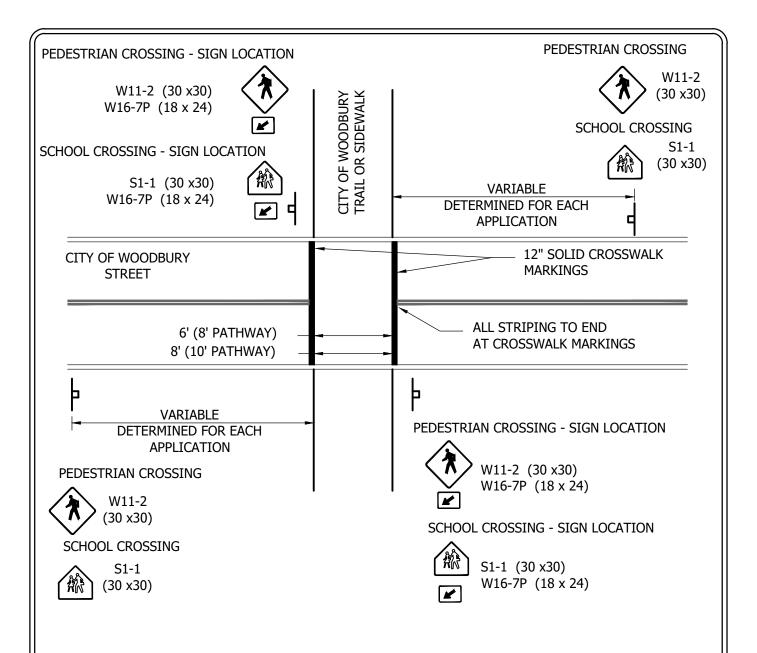






CONCRETE CURB REPLACEMENT NON DRIVEWAY LOCATION

LAST REVISION: February 2015



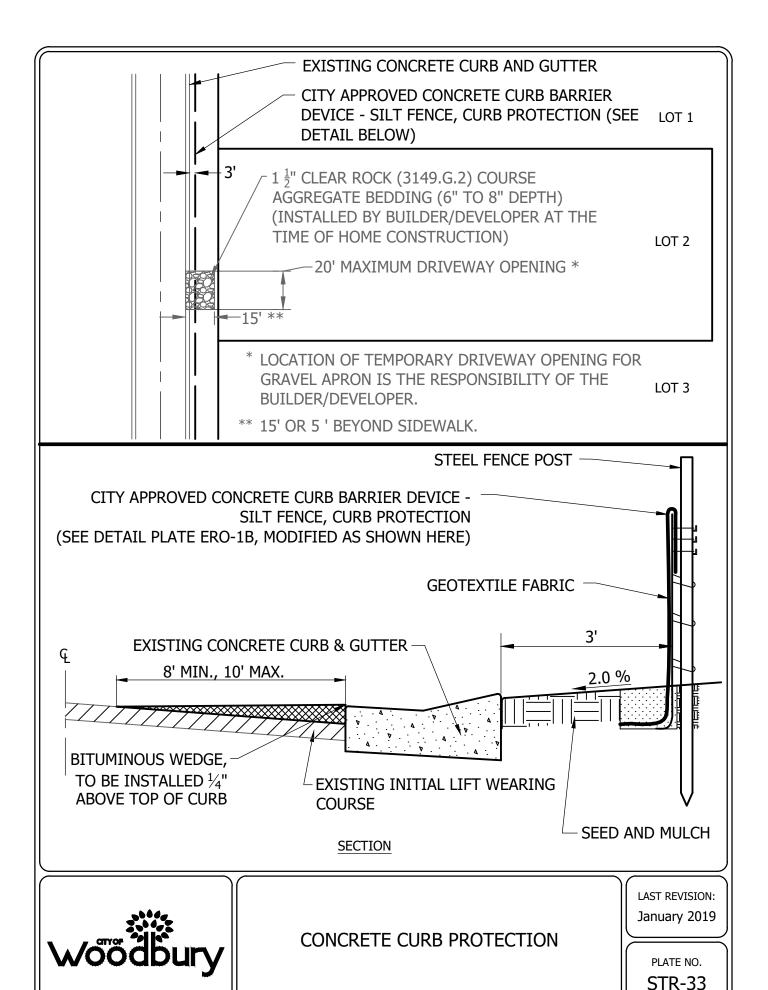
NOTES:

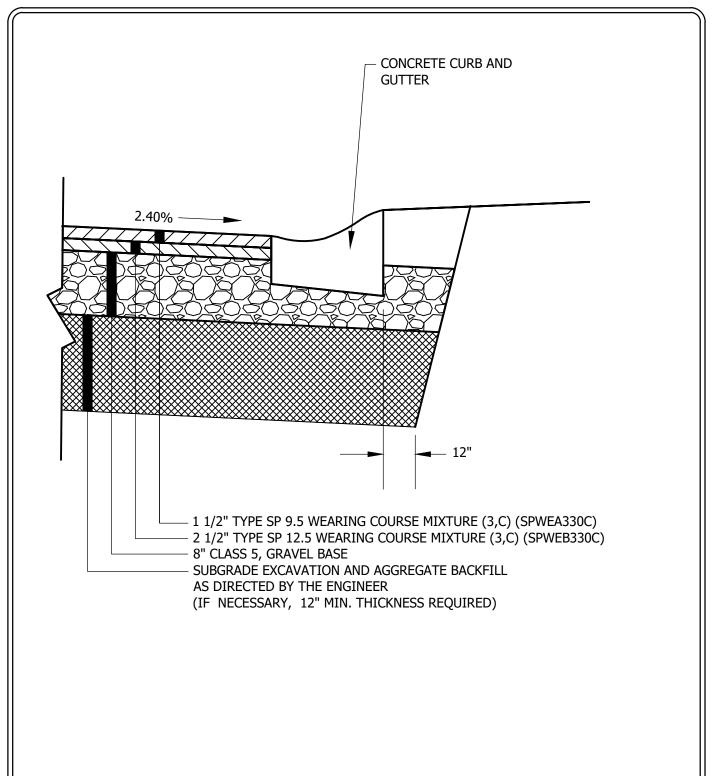
- 1) STREET SIGN, POST, AND ANCHOR SYSTEM INFORMATION CAN BE FOUND IN THE CURRENT CITY OF WOODBURY STANDARD PROJECT MANUAL FOR UTILITY AND STREET CONSTRUCTION.
- 2) SIGNS W11-2, S1-1, W16-7P SHALL BE FLUORESCENT YELLOW-GREEN REFLECTIVE SHEETING.
- 3) SIGN POSTS AND ANCHOR SYSTEM INSTALLATION, SEE STR-27 AND STR-28.



CROSSWALK SIGNAGE DETAIL

LAST REVISION: March 2008



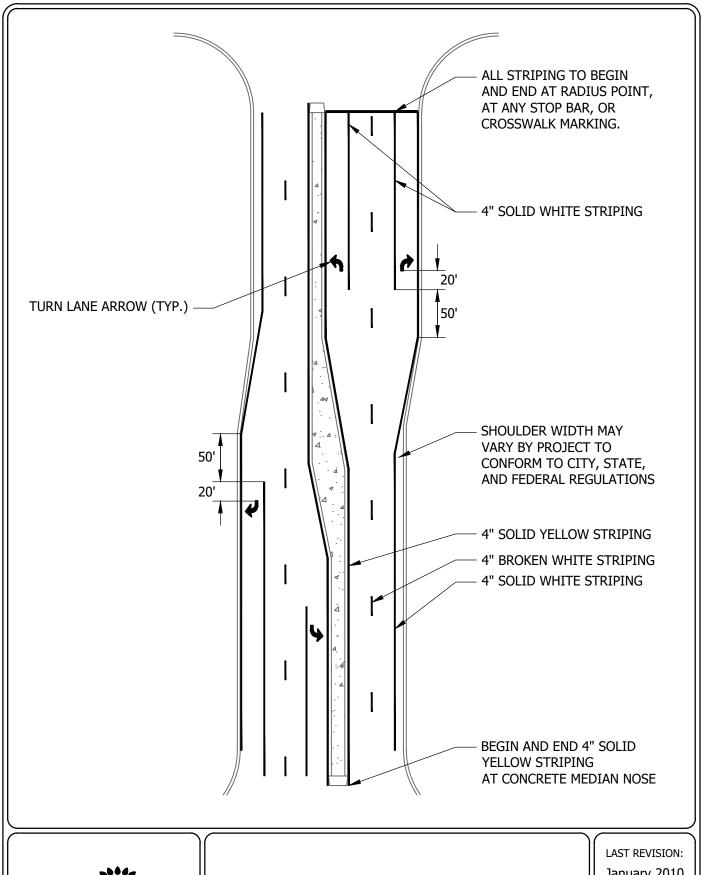


STREET TYPICAL SECTION-RESIDENTAL



STREET TYPICAL SECTION FOR RESIDENTIAL STREETS

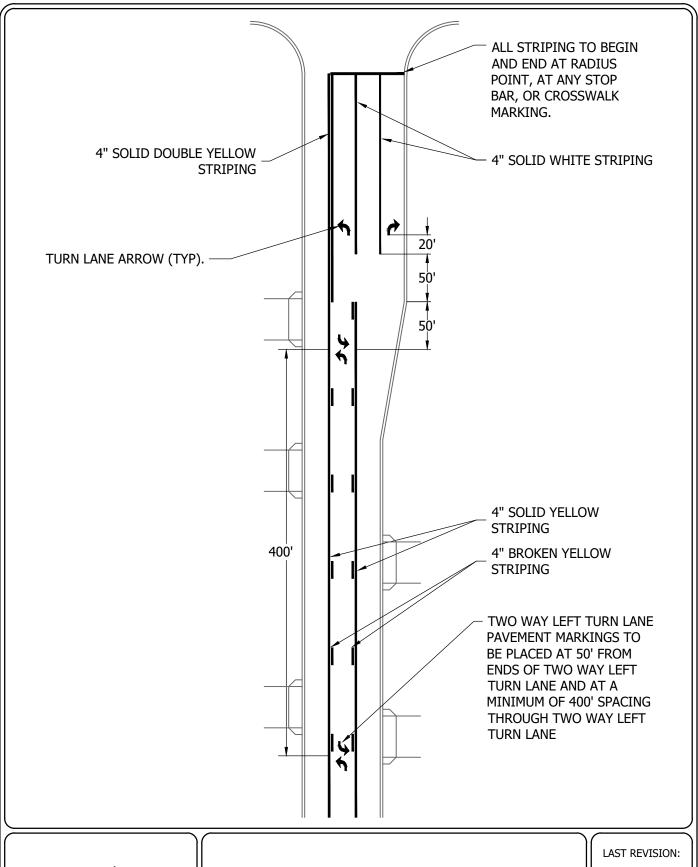
LAST REVISION: February 2015





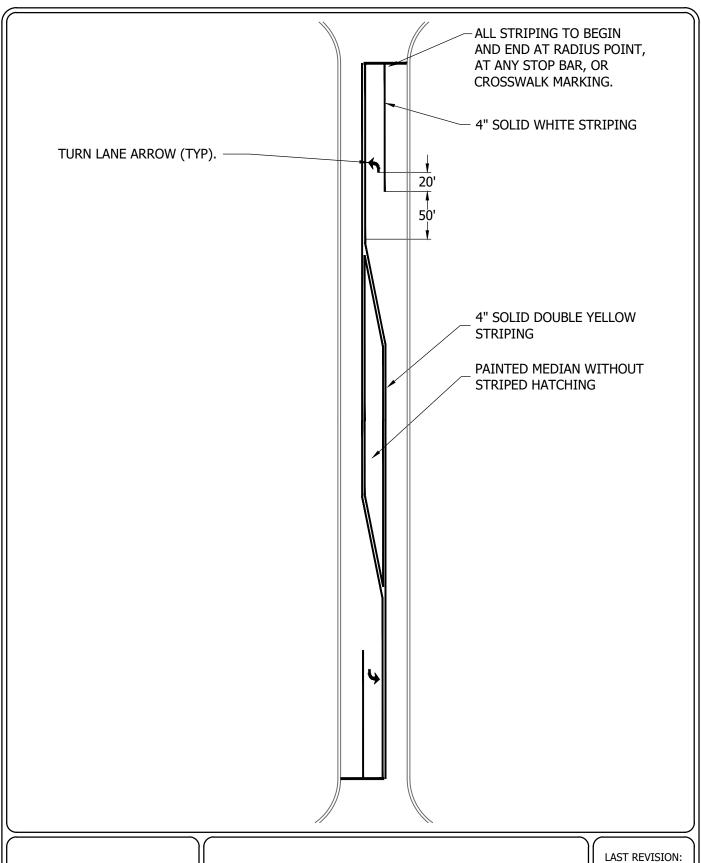
STRIPING DETAIL WITH **CONCRETE MEDIAN**

January 2010





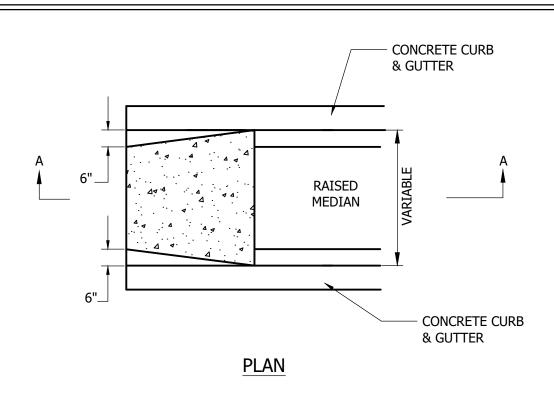
STRIPING DETAIL WITH TWO WAY LEFT TURN LANES January 2010

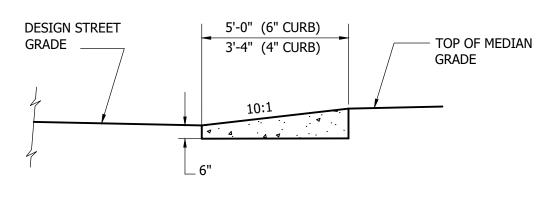




STRIPING DETAIL WITH STRIPED MEDIAN

January 2010



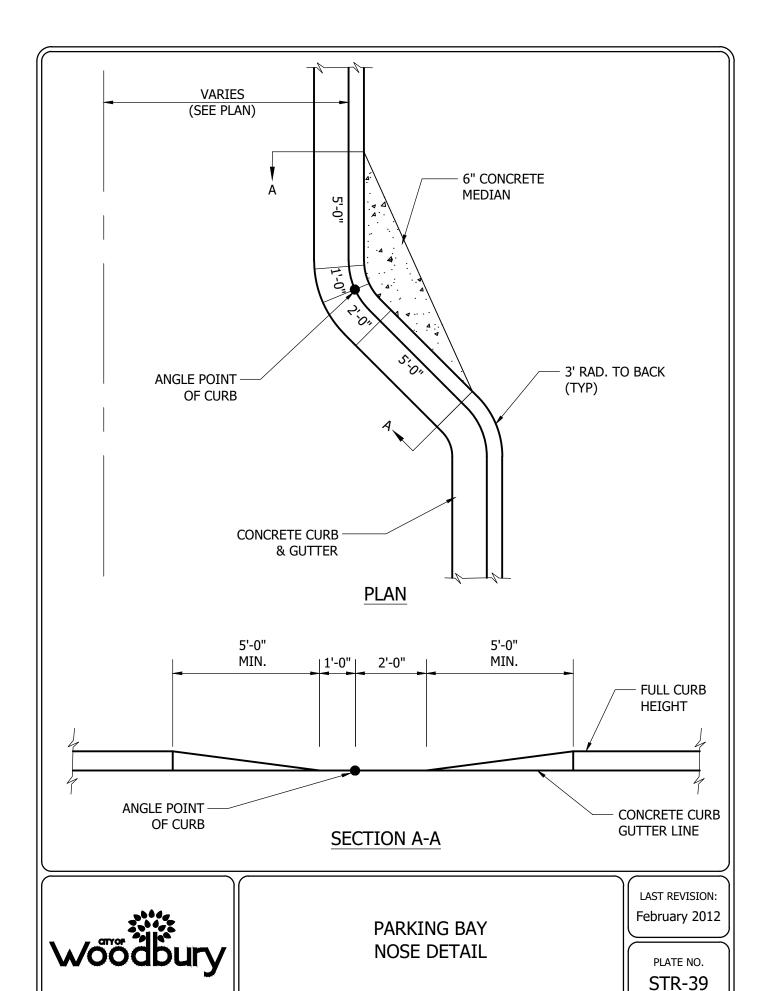


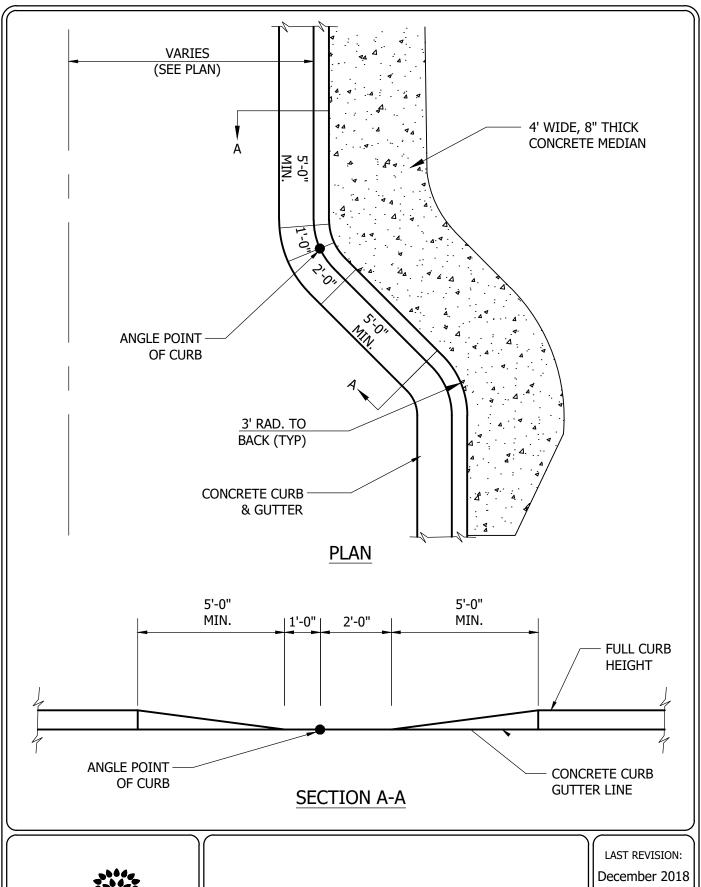
SECTION A-A



CONCRETE APPROACH NOSE DETAIL

LAST REVISION:
May 2011

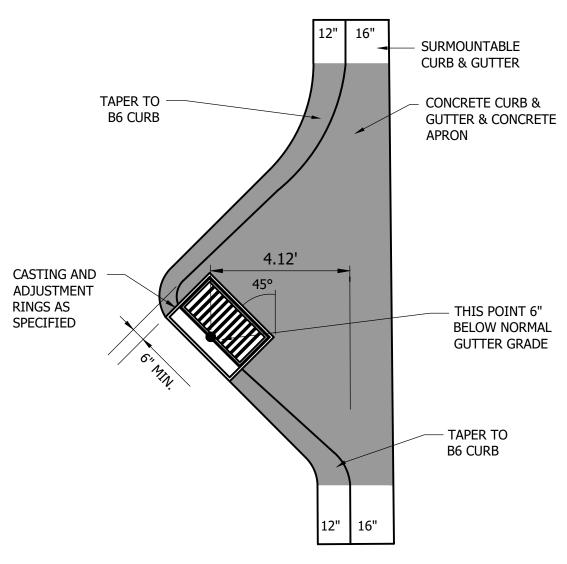






CHOKER DETAIL

PLATE NO. STR-39A



NOTE:
APRON PAYMENT IS FOR SHADED AREA ONLY.

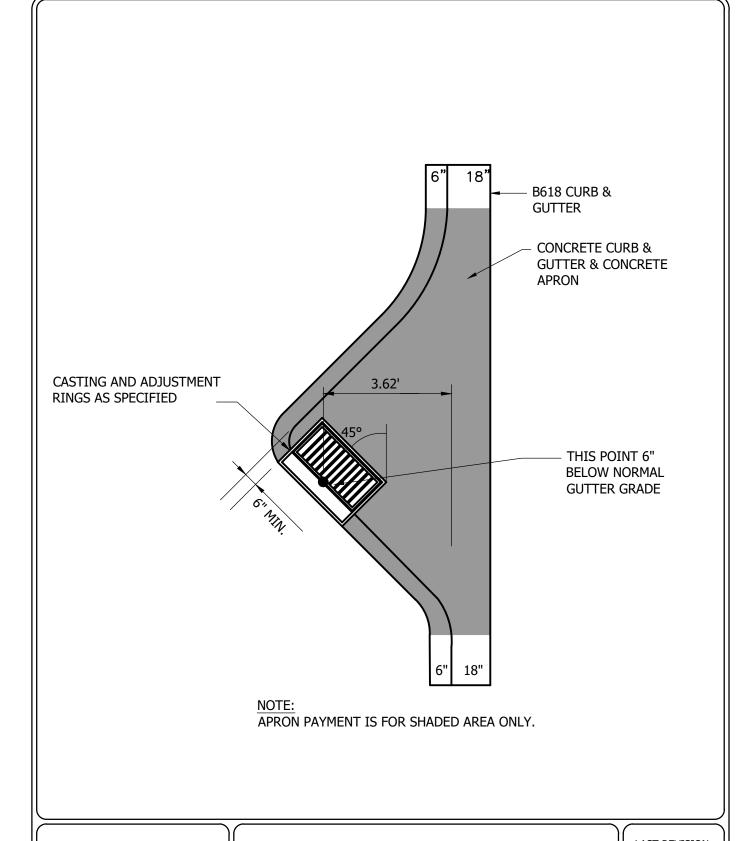


HIGH CAPACITY CONCRETE APRON (SURMOUNTABLE CURB)

LAST REVISION: November 2019

PLATE NO.

STR-40



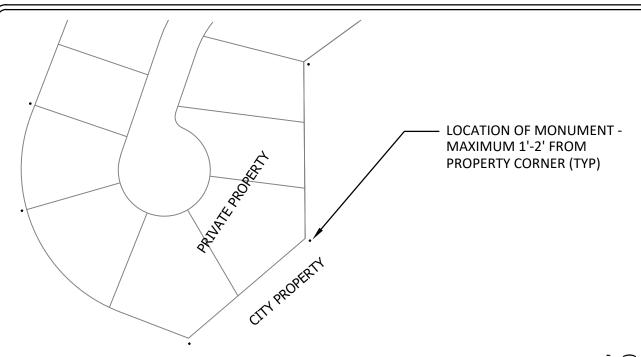


HIGH CAPACITY CONCRETE APRON (B618 CURB)

LAST REVISION: November 2019

PLATE NO.

STR-41



SPECIFICATIONS:

1. MONUMENT

- CONSISTS OF A POST SET 2' BEHIND PROPERTY LINE
- POST TO HAVE THREE ¹/₄" WIDE LINES ROUTED INTO TOP 0.5' OF POST, 0.12' SPACING

2. LETTERING

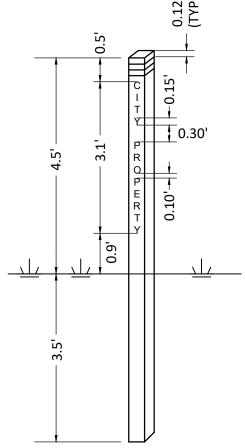
- "CITY PROPERTY" ENGRAVED INTO POST, ¹/₄" DEPTH
- LETTERS TO BE AERIAL FONT, 0.15' TALL, 0.10' SPACING BETWEEN LETTERS, 0.30' SPACING BETWEEN WORDS
- START 0.5' FROM TOP OF POST

2. POST MATERIALS

- 4"x4" SQUARE COMPOSITE POST WITH ROUNDED EDGES AND CORNERS
- 8' LONG
- DARK BROWN

3. <u>POST INSTALLATION</u>

- MOUNTED TO A HEIGHT OF 4.5 FEET ABOVE GRADE
- SET 3.5 FEET IN THE GROUND
- PLACED WITH LETTERING FACING PRIVATE PROPERTY
- INSTALLED AS DIRECTED BY CITY ENGINEER

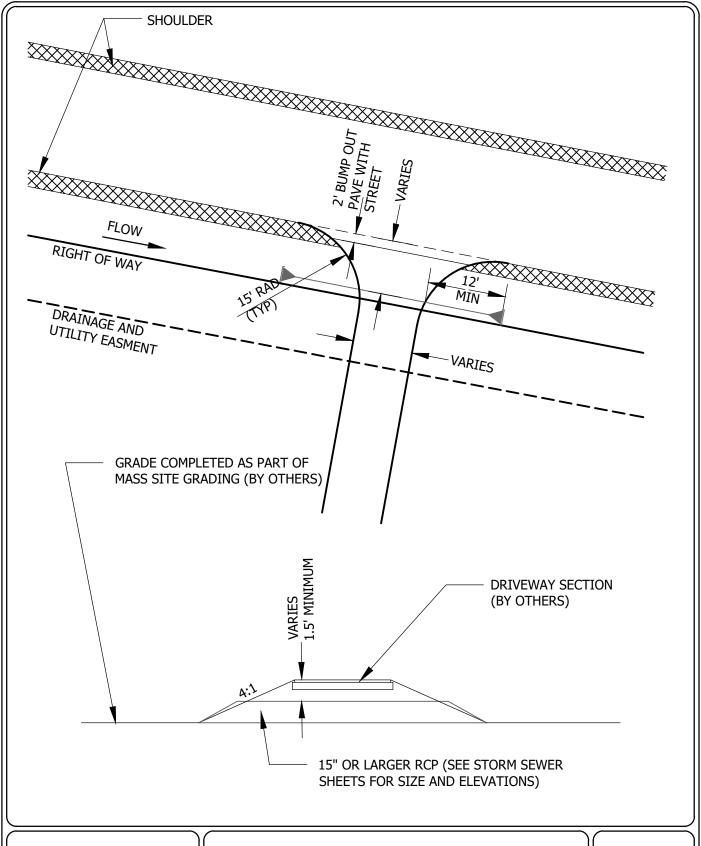




CITY PROPERTY MONUMENT

LAST REVISION: April 2018

PLATE NO. STR-42





RURAL ROADWAY DRIVEWAY CULVERT LAST REVISION: January 2019

PLATE NO.

STR-43

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City	
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<u>No.</u>	SECTION 7 - EROSION CONTROL
ERO-1A	SILT FENCE - MACHINE SLICED
ERO-1B	SILT FENCE - CURB PROTECTION
ERO-1C	SILT FENCE - STANDARD
ERO-1D	SILT FENCE - J-HOOK
ERO-2	EROSION CONTROL BLANKET INSTALLATION
ERO-3	FLOATING SILT CURTAIN
ERO-4A	INLET PROTECTION - SILT BOX FOR CATCH BASIN
	BEFORE ROAD CONSTRUCTION
ERO-4B	INLET PROTECTION - ROCK FILTER FOR CATCH BASIN
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ERO-5A	DITCH CHECK / WEEPER - SIZING AND MATERIALS
ERO-5D	DITCH CHECK - TRIANGULAR SILT DIKE
ERO-5E	SEDIMENT CONTROL LOG DITCH CHECK
ERO-6B	PIPE CHECK - SEDIMENT CONTROL LOG WEIR OR ROCK WEIR
ERO-7	CONSTRUCTION ENTRANCE - ROCK OR WOOD / MULCH
ERO-8A	TEMPORARY SEDIMENTATION BASIN - PIPE OUTLET
ERO-8B	TEMPORARY SEDIMENTATION BASIN - STANDPIPE OUTLET
ERO-8C	TEMPORARY SEDIMENT TRAP / BASIN
ERO-8D	TEMPORARY SEDIMENT TRAP / BASIN - WITH RIP RAP
ERO-8E	TEMPORARY SEDIMENT TRAP / BASIN - ON FUTURE STREET SUBGRADE
ERO-10	DIVERSION MOUND AND TEMPORARY PIPE DOWN DRAIN
ERO-11	SLOPE TRACKING
ERO-12A	SUPER DUTY PERIMETER CONTROL - SILT FENCE / CONCRETE
EDO 130	BARRIER SYSTEM
ERO-12C	PERIMETER / SEDIMENT CONTROL - HAY BALES

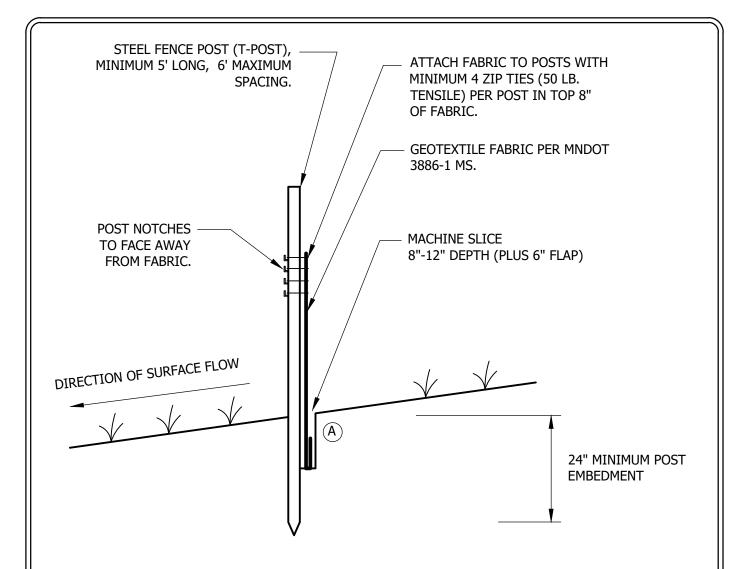


SECTON 7 - EROSION CONTROL INDEX

LAST REVISION:

January 2019

PLATE NO.



NOTE:

THE MACHINE SLICED METHOD (THIS DETAIL) IS THE STANDARD SILT FENCE INSTALLATION METHOD. CURB PROTECTION (ERO-1B) OR STANDARD (ERO-1C) SILT FENCE INSTALLATION METHODS SHOULD ONLY BE USED WHEN APPROVED OR DIRECTED BY THE CITY.

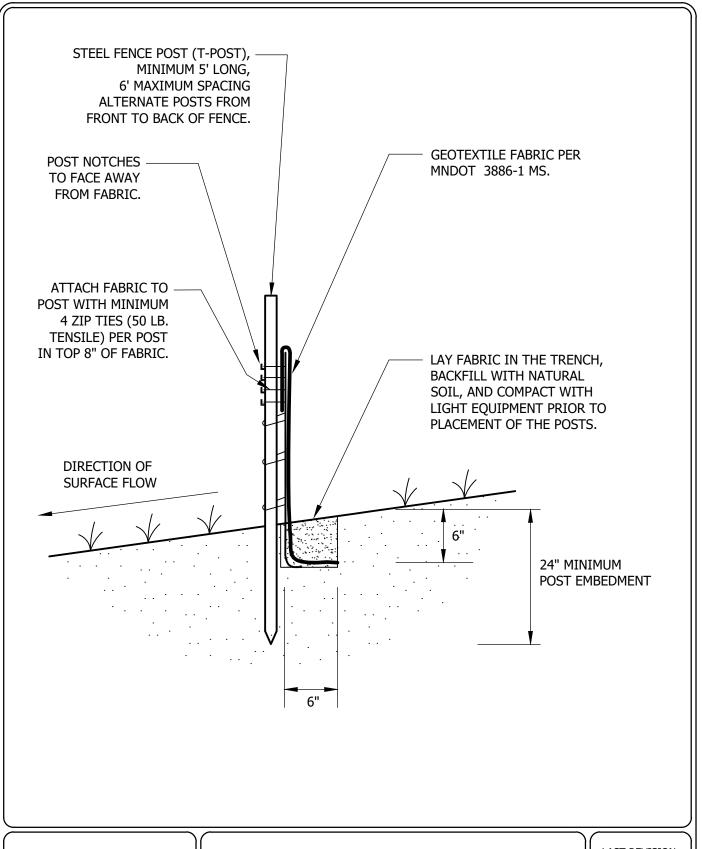
(A) <u>COMPACTION:</u>

AFTER "SLICING" IN THE FABRIC AND *BEFORE* INSTALLATION OF STEEL POSTS, DRIVE INSTALLATION EQUIPMENT OVER THE "SLICE" WHILE FABRIC IS LAYING ON THE GROUND. *THEN* INSTALL STEEL POSTS AND PULL UP FABRIC TO ATTACH AT A UNIFORM HEIGHT.



SILT FENCE MACHINE SLICED LAST REVISION: January 2019

PLATE NO. ERO-1A

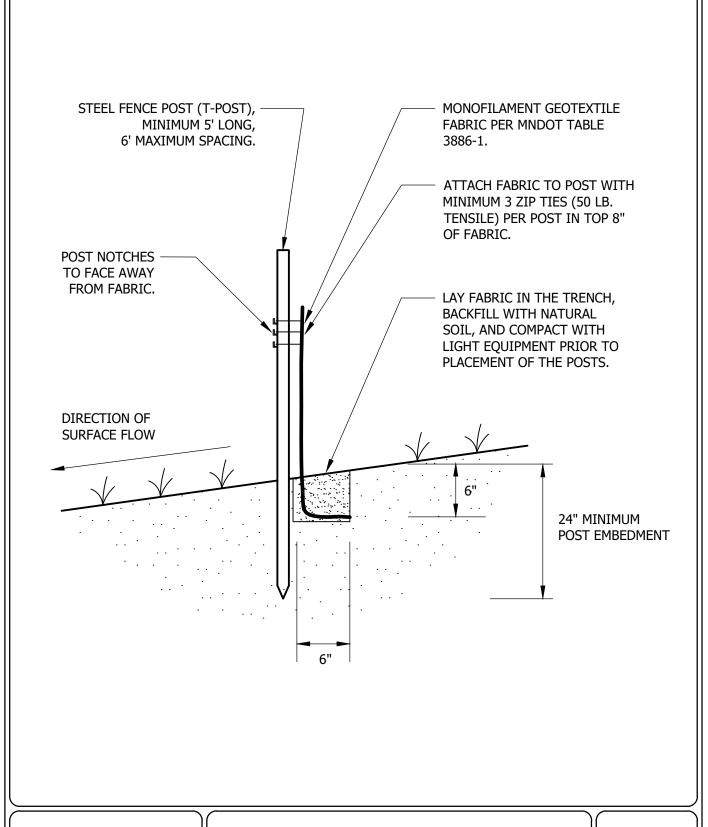




SILT FENCE CURB PROTECTION LAST REVISION: January 2019

PLATE NO.

ERO-1B





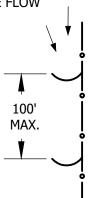
SILT FENCE STANDARD LAST REVISION: Mar. 2004

PLATE NO. ERO-1C

PLAN VIEW

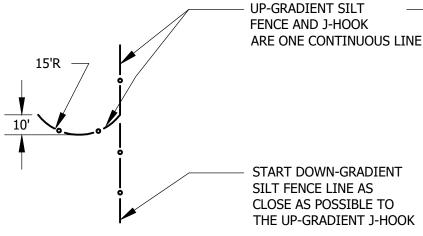
I. SPACING REQUIREMENTS

DIRECTION OF SURFACE FLOW

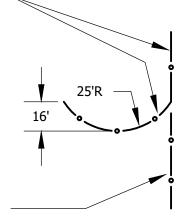


NOTE: SPACING DISTANCES WILL VARY, BUT ARE NOT TO EXCEED 100 FEET.

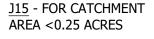
II. SIZING REQUIREMENTS: J15, J25

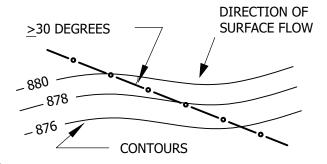


START DOWN-GRADIENT SILT FENCE LINE AS **CLOSE AS POSSIBLE TO** THE UP-GRADIENT J-HOOK



J25 - FOR CATCHMENT AREA >0.25 ACRES





NOTE:

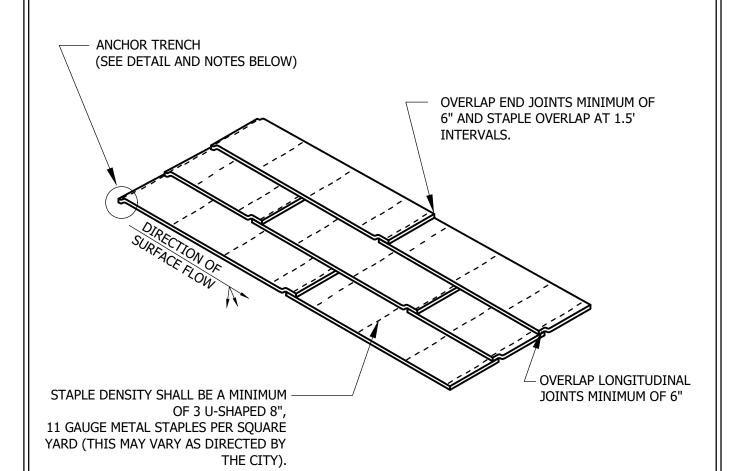
J-HOOKS SHALL BE USED WHEN THE SILT FENCE IS INSTALLED AT AN ANGLE OF 30 DEGREES OR GREATER FROM PARALLEL TO THE CONTOURS.



SILT FENCE J-HOOK

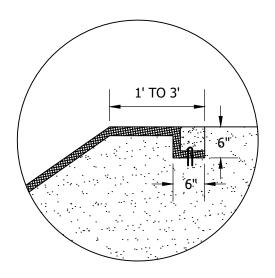
LAST REVISION: Mar. 2004

PLATE NO. ERO-1D



ANCHOR TRENCH

- 1. DIG 6" X 6" TRENCH
- 2. LAY BLANKET IN TRENCH
- 3. STAPLE AT 1.5' INTERVALS
- 4. BACKFILL WITH NATURAL SOIL AND COMPACT
- 5. BLANKET LENGTH SHALL NOT EXCEED 100' WITHOUT AN ANCHOR TRENCH

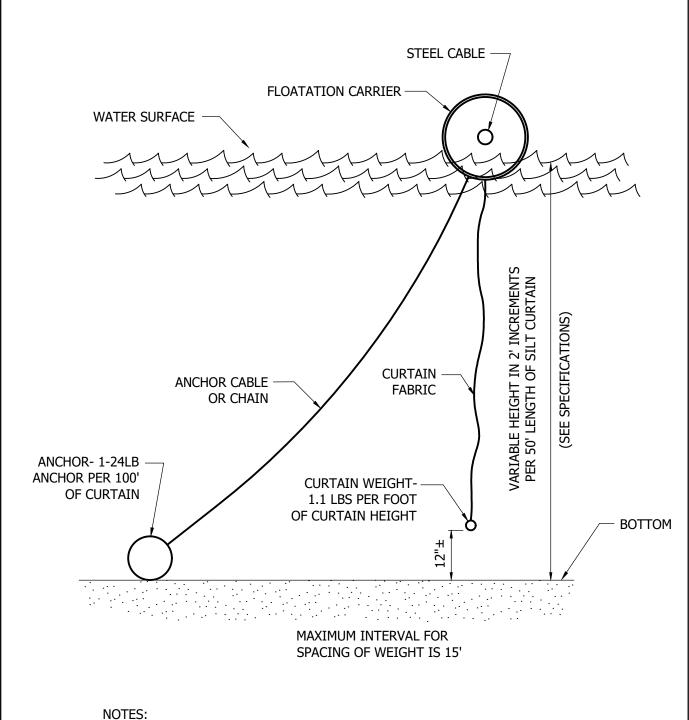




EROSION CONTROL BLANKET INSTALLATION

LAST REVISION: Mar. 2004

PLATE NO. ERO-2



- -DOUBLE SILT CURTAINS SHOULD BE SPACED 10' APART.
- -CURTAIN LENGTH TO MATCH BOTTOM PROFILE AS CLOSELY AS POSSIBLE.

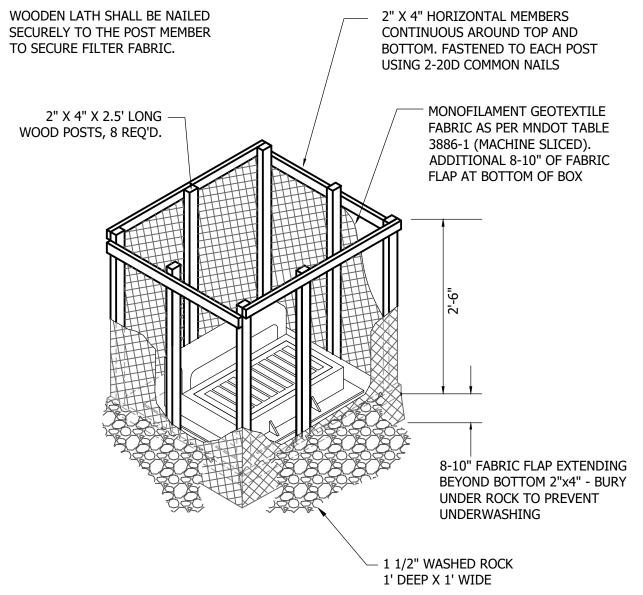


FLOATING SILT CURTAIN

LAST REVISION: Jan. 2005

PLATE NO.

ERO-3



NOTES:

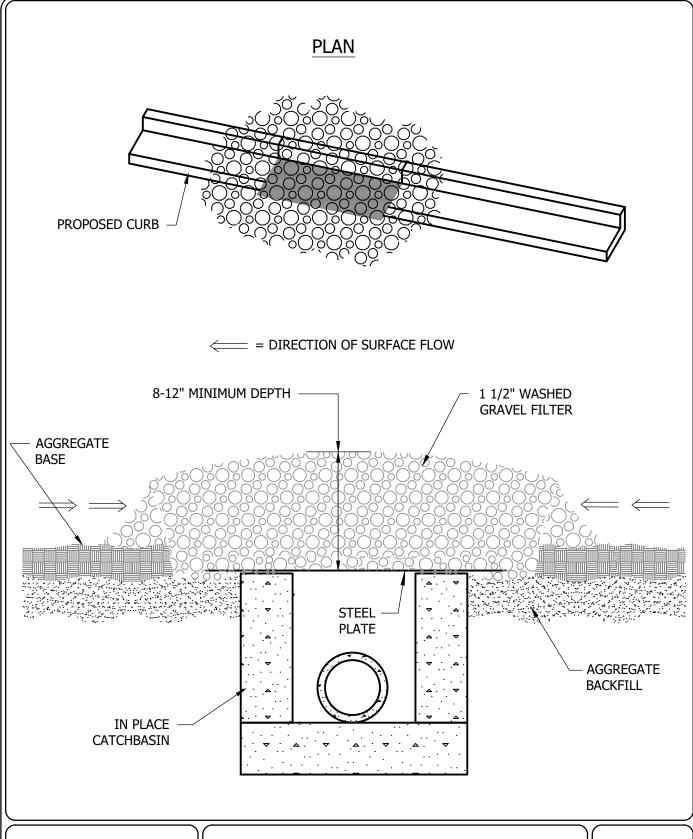
CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.



INLET PROTECTION
SILT BOX FOR CATCH BASIN
BEFORE ROAD CONSTRUCTION

LAST REVISION: Jan. 2005

PLATE NO. ERO-4A



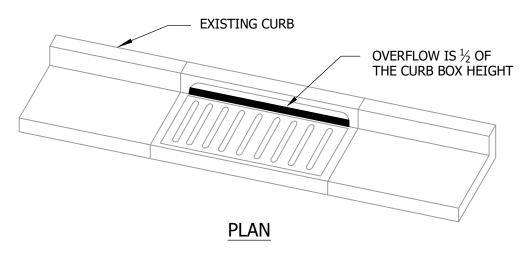


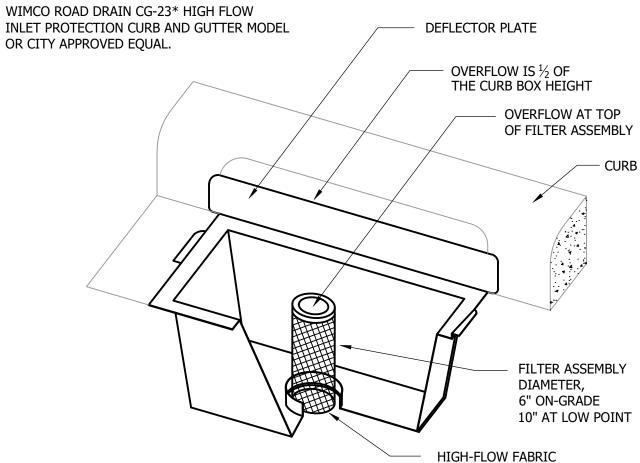
INLET PROTECTION
ROCK FILTER FOR CATCH BASIN
DURING ROAD CONSTRUCTION

LAST REVISION: Mar. 2004

PLATE NO.

ERO-4B



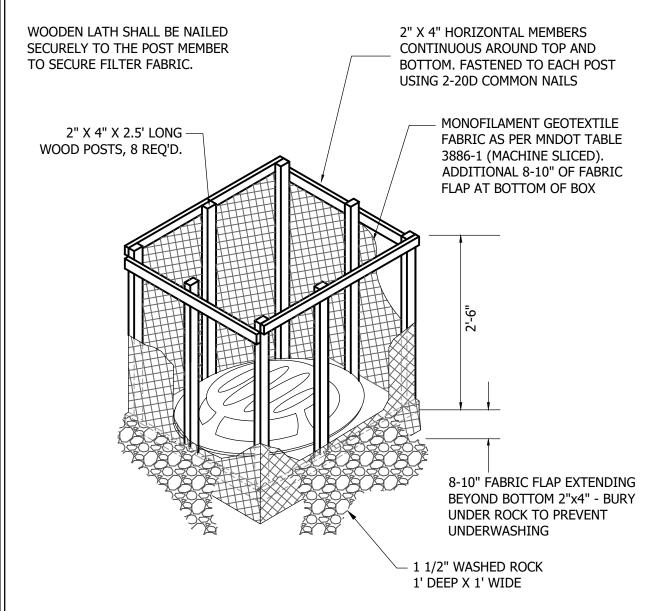


* FOR THE NEW R-3290-VB STANDARD CASTING, INSTALL WIMCO ROAD DRAIN CG-3290 OR CITY APPROVED EQUAL.



INLET PROTECTION CATCH BASIN INSERT AFTER PAVING LAST REVISION: Jan. 2005

PLATE NO. ERO-4C



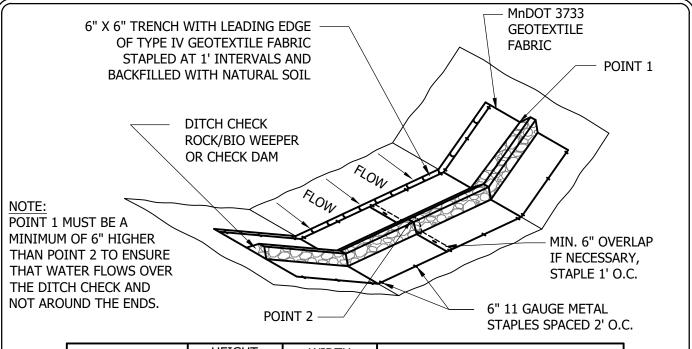
NOTES:

CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.

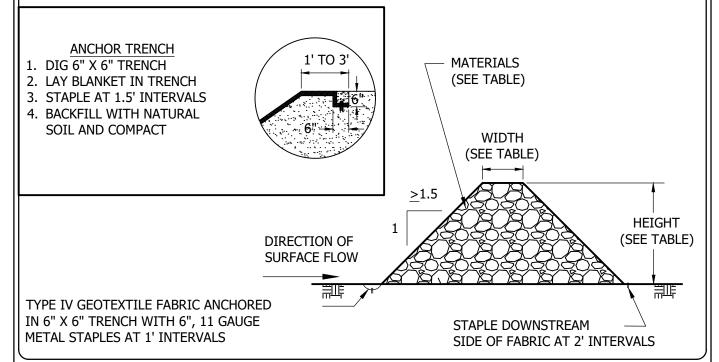


INLET PROTECTION SILT BOX FOR BEEHIVE CASTING LAST REVISION: Jan. 2005

PLATE NO. ERO-4D



	HEIGHT (INCHES)	WIDTH (INCHES)	MATERIAL
SMALL CHECK	24	12 - 18	MnDOT 3601 CLASS II RIP RAP
LARGE CHECK	36	24 - 30	MnDOT 3601 CLASS III RIP RAP
ROCK WEEPER	18	6 - 12	MnDOT 3882 TYPE 9 MULCH
			(1 1/2" WASHED ROCK)





ROCK DITCH CHECK / WEEPER **SIZING & MATERIALS**

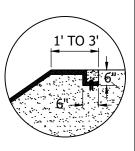
LAST REVISION: March 2008

PLATE NO.

ERO-5A

ANCHOR TRENCH

- 1. DIG 6" X 6" TRENCH
- 2. LAY BLANKET IN TRENCH
- 3. STAPLE AT 1.5' INTERVALS
- 4. BACKFILL WITH NATURAL SOIL AND COMPACT

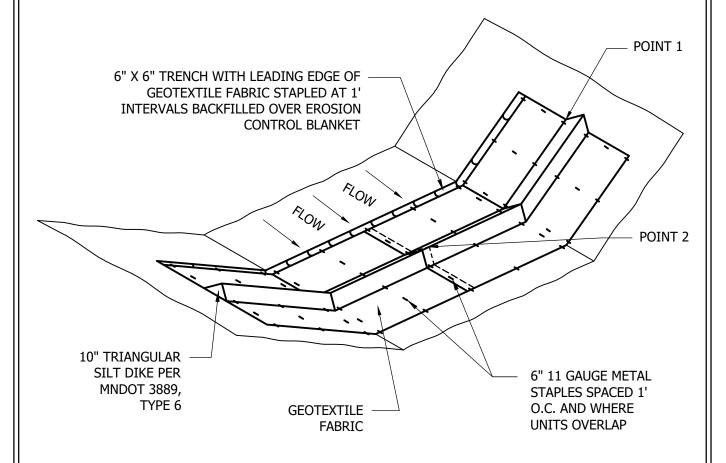


NOTE:

STAPLE DENSITY SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS.

NOTE:

POINT 1 MUST BE A MINIMUM OF 6" HIGHER THAN POINT 2 TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

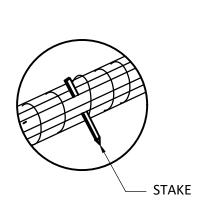


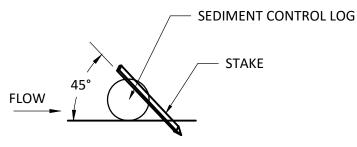


DITCH CHECK TRIANGULAR SILT DIKE LAST REVISION: March 2008

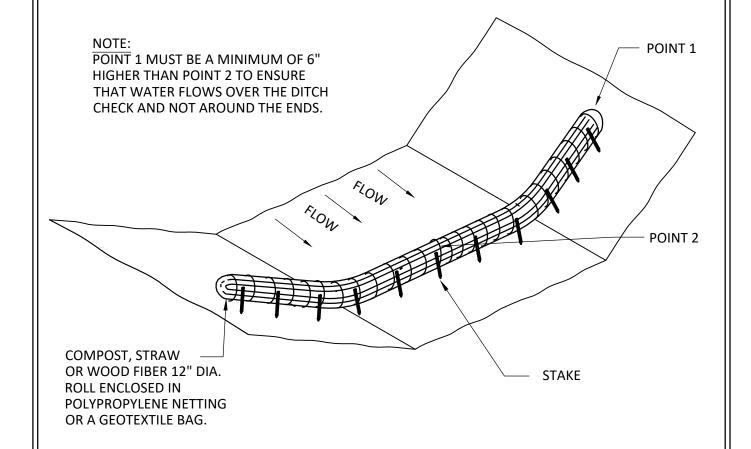
PLATE NO.

ERO-5D





2" x 2" x 16" LONG WOODEN STAKES AT 1'-0" SPACING MINIMUM. STAKES SHALL BE DRIVEN THROUGH THE BACK HALF OF THE SEDIMENT CONTROL LOG AT AN ANGLE OF 45° WITH THE TOP OF THE STAKE POINTING UPSTREAM.

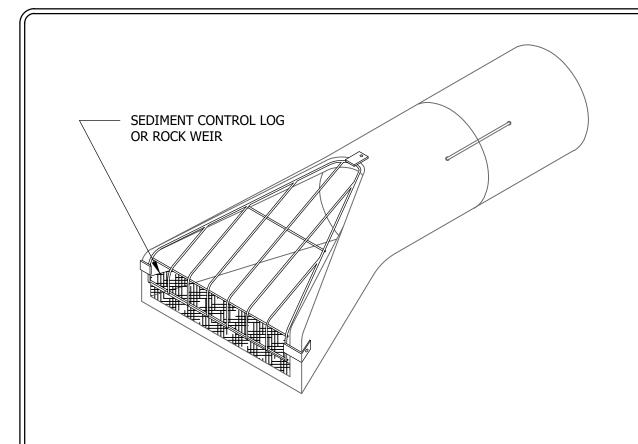




SEDIMENT CONTROL LOG DITCH CHECK LAST REVISION: November 2017

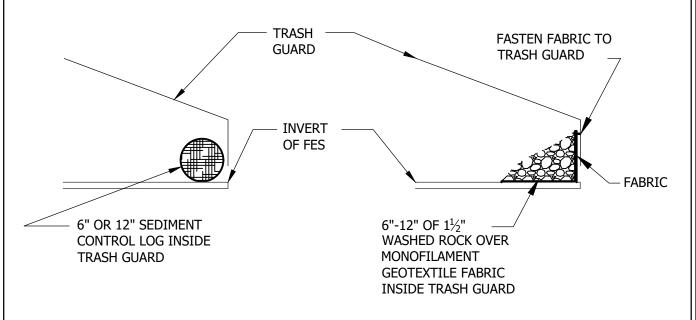
PLATE NO.

ERO-5E



SEDIMENT CONTROL LOG WEIR

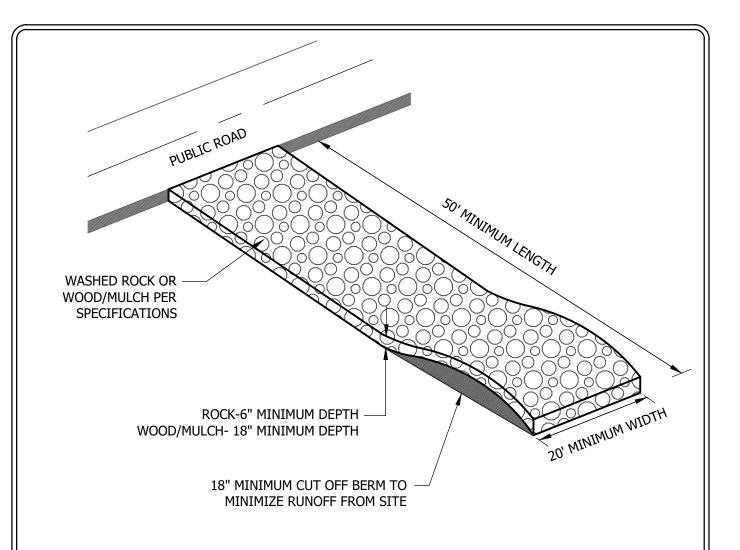
ROCK WEIR





PIPE CHECK -SEDIMENT CONTROL LOG WEIR OR ROCK WEIR LAST REVISION: November 2017

PLATE NO. ERO-6B



NOTES:

- 1. FILTER FABRIC SHALL BE PLACED UNDER ROCK OR MULCH TO STOP MUD MIGRATION THROUGH MATERIAL.
- 2. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS. FUGITIVE ROCK OR MULCH WILL BE REMOVED FROM ADJACENT ROADWAYS DAILY OR MORE FREQUENTLY AS NECESSARY.

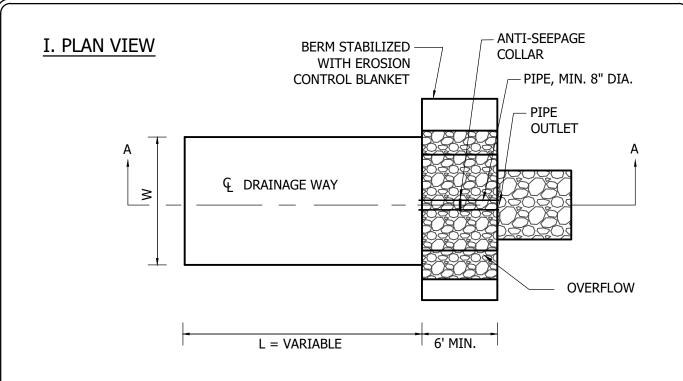


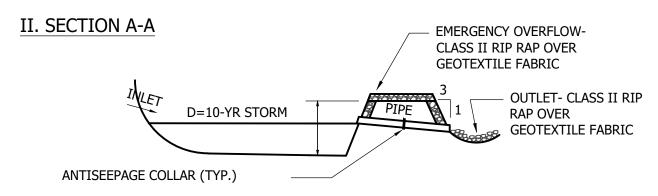
CONSTRUCTION ENTRANCE - ROCK OR WOOD / MULCH

LAST REVISION:
April 2007

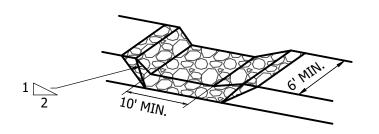
PLATE NO.

ERO-7





III. BASIN EMERGENCY OVERFLOW



NOTES:

BASIN USED FOR 10 ACRES DRAINAGE AREA OR MORE. DESIGN RUNOFF VOLUME IS FROM A 2-YR, 24-HR STORM PER ACRE DRAINED TO THE BASIN. BASIN VOLUME MUST BE A MIN. OF 1800 CUBIC FEET/ACRE. SEE PLANS/SPECIFICATIONS FOR BASIN DIMENSIONS AND PIPE SIZE AND SLOPE.



TEMPORARY SEDIMENTATION BASIN PIPE OUTLET

LAST REVISION: Jan. 2005

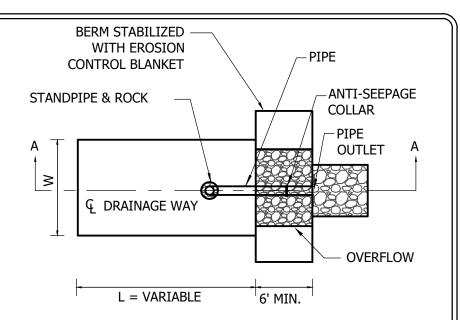
PLATE NO. ERO-8A

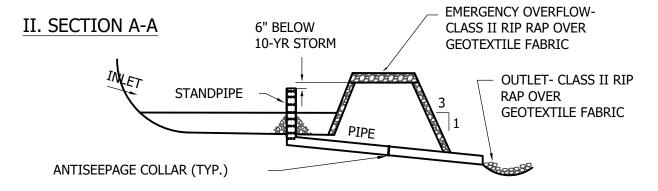
I. PLAN VIEW

NOTES:

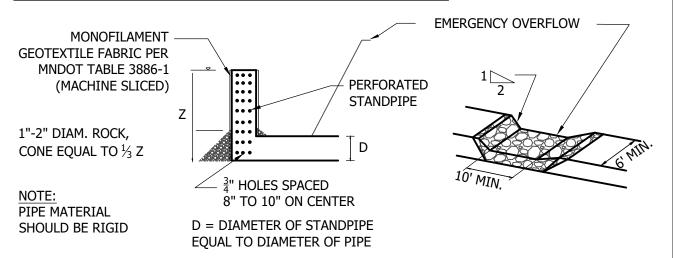
BASIN USED FOR 10 ACRES DRAINAGE AREA OR MORE. DESIGN RUNOFF VOLUME IS FROM A 2-YR, 24-HR STORM PER ACRE DRAINED TO THE BASIN. BASIN VOLUME MUST BE A MIN. OF 1800 CUBIC FEET/ACRE.

SEE PLANS/SPECIFICATIONS FOR BASIN DIMENSIONS AND PIPE SIZE AND SLOPE.





III. BASIN STANDPIPE AND EMERGENCY OVERFLOW

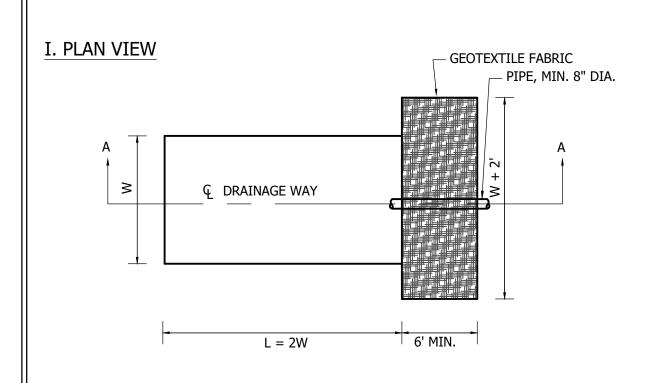


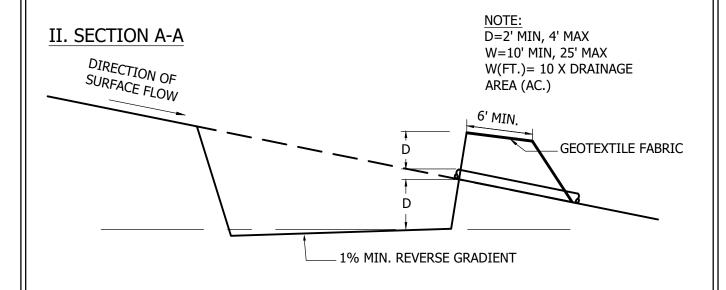


TEMPORARY SEDIMENTATION BASIN STANDPIPE OUTLET

LAST REVISION: Jan. 2005

PLATE NO. ERO-8B



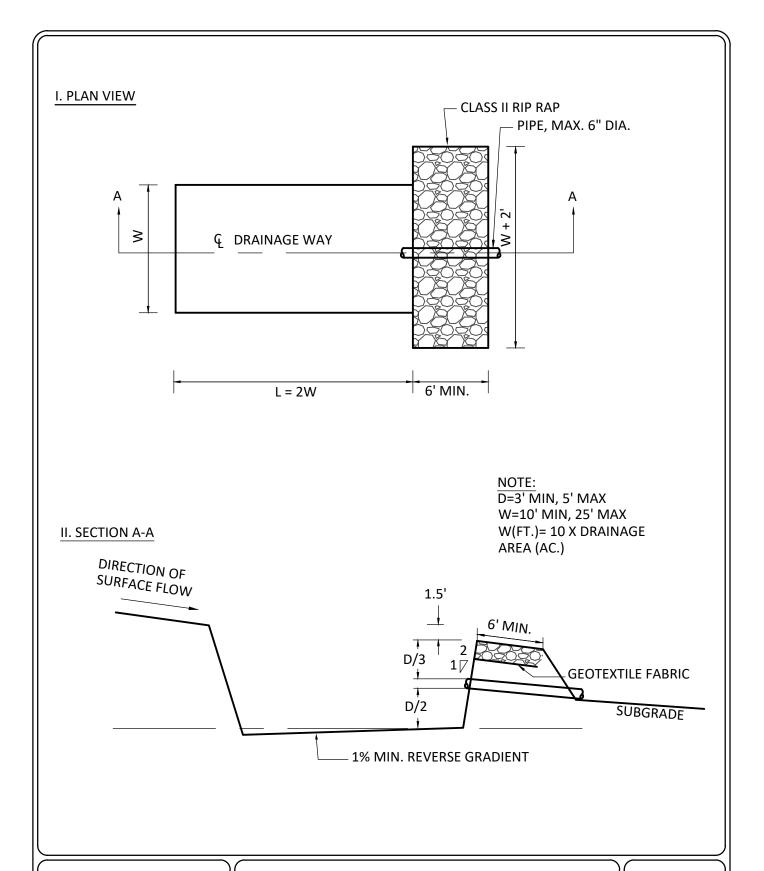




TEMPORARY SEDIMENT TRAP/BASIN

LAST REVISION:
December 2016

PLATE NO. ERO-8C

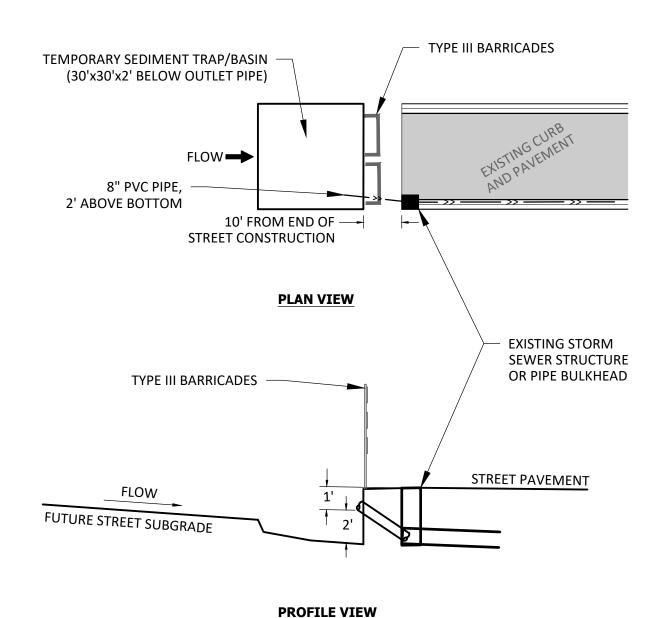




TEMPORARY SEDIMENT TRAP / BASIN WITH RIP RAP

LAST REVISION: November 2017

PLATE NO. ERO-8D





TEMPORARY SEDIMENT TRAP/BASIN ON FUTURE STREET SUBGRADE

LAST REVISION: November 2017

PLATE NO.

ERO-8E

PROFILE VIEW ANTISEEPAGE COLLAR (TYP.) -**DIVERSION MOUND** 2' MIN. 1.5' MIN. 22 1/2° BEND 10" MIN. DIAM. PIPE -**FLARED END** PER ENGINEER'S SLOPE 3% OR STEEPER **SECTION APPROVAL** WATERTIGHT CONNECTING BAND RIPRAP APRON NOTE: PIPE SHALL BE ANCHORED SECURELY WITH HOLD-DOWN @ LESS THAN 1% SLOPE **GROMMETS SPACED 8' ON CENTER PLAN VIEW** RIPRAP APRON PLAN D= PIPE DIAMETER DIVERSION MOUND -// FLOW **PIPE ENSURE FLOW** 6D **INTO PIPE RIP RAP APRON** LAST REVISION:



DIVERSION MOUND AND TEMPORARY PIPE DOWNDRAIN Jan. 2005

PLATE NO. **ERO-10**



NOTE:

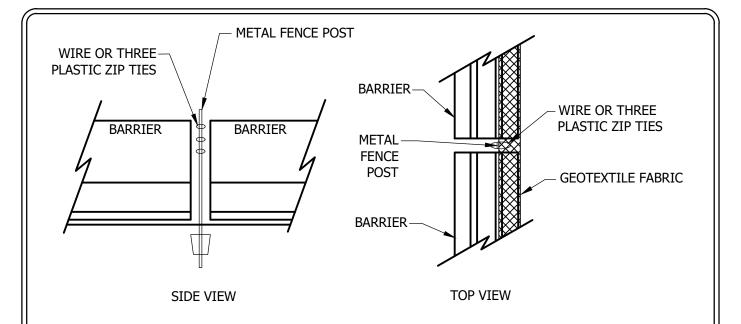
ALL SLOPES WITH A GRADE EQUAL TO OR STEEPER THAN 3:1 REQUIRE SLOPE TRACKING. SLOPES WITH A GRADE MORE GRADUAL THAN 3:1 REQUIRE SLOPE TRACKING IF THE STABILIZATION METHOD IS EROSION CONTROL BLANKET OR HYDROMULCH.



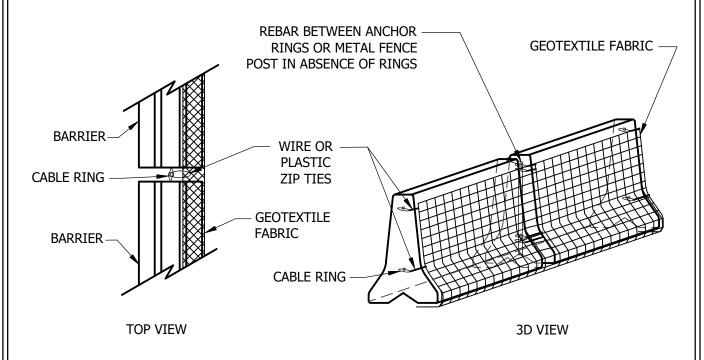
SLOPE TRACKING

LAST REVISION: Mar. 2004

PLATE NO. ERO-11



BARRIER WITHOUT CABLE RINGS

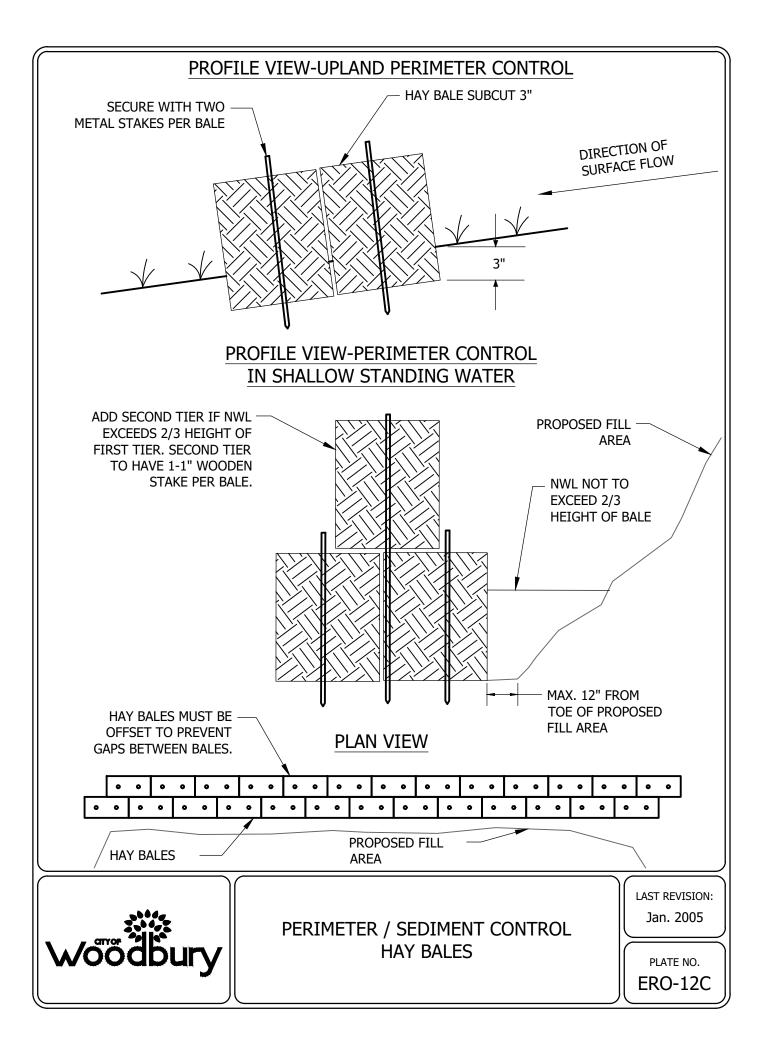


BARRIER WITH CABLE RINGS SILT FENCE, SUPER DUTY



SUPER DUTY PERIMETER CONTROL SILT FENCE / CONCRETE BARRIER SYSTEM LAST REVISION: March 2008

PLATE NO. ERO-12A



INDEX

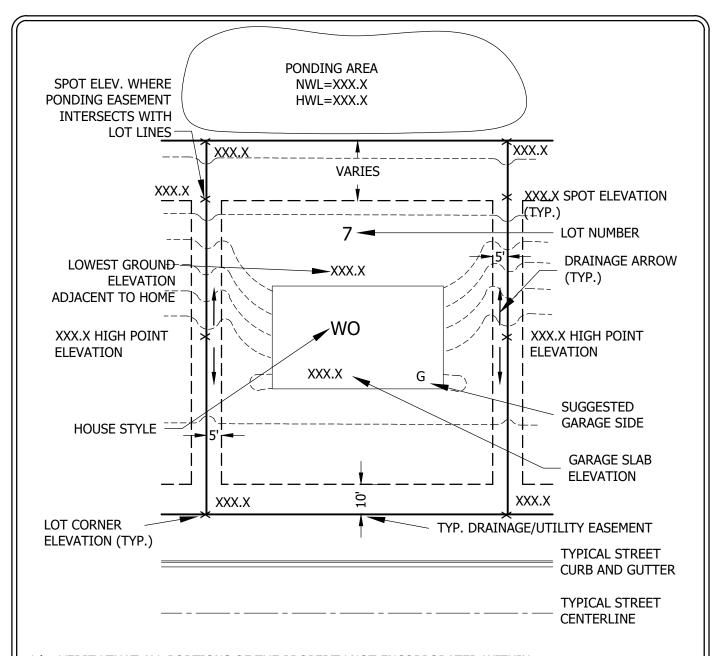
City Plate	
<u>No.</u>	SECTION 8 - GRADING
GRD-1	REQUIRED LOT GRADING INFORMATION
GRD-2	REQUIRED LOT GRADING INFORMATION
GRD-3	REQUIRED LOT GRADING INFORMATION
GRD-4	REQUIRED LOT GRADING INFORMATION
GRD-5	EMERGENCY OVERFLOW DETAIL
GRD-6	ORANGE CONSTRUCTION SAFETY FENCE



SECTION 8 - GRADING INDEX

LAST REVISION: Dec. 2003

PLATE NO.



- 1.) VERIFY THAT ALL PORTIONS OF THE PROPERTY NOT ENCORPORATED WITHIN A DRAINAGE AND UTILITY EASEMENT MUST BE ONE FOOT (1') ABOVE THE 100 YR. HWL OF ADJACENT PONDS, LAKES, STREAMS, ETC.
- 2.) SEPARATION OF GARAGE SLAB ELEVATION MUST RANGE FROM 1 FOOT (12") TO 4 FEET (48") ABOVE THE TOP OF CURB.
- 3.) SEPARATION OF TOP OF BLOCK ELEVATION MUST RANGE FROM 1.5 FEET (18") TO 4.5 FEET (54") ABOVE THE TOP OF CURB.
- 4.) ALL SPOT ELEVATIONS REPRESENT FINAL GRADES.
- 5.) ALL SIDE AND REAR LOT SWALES MUST HAVE A MINIMUM SLOPE OF 2%.

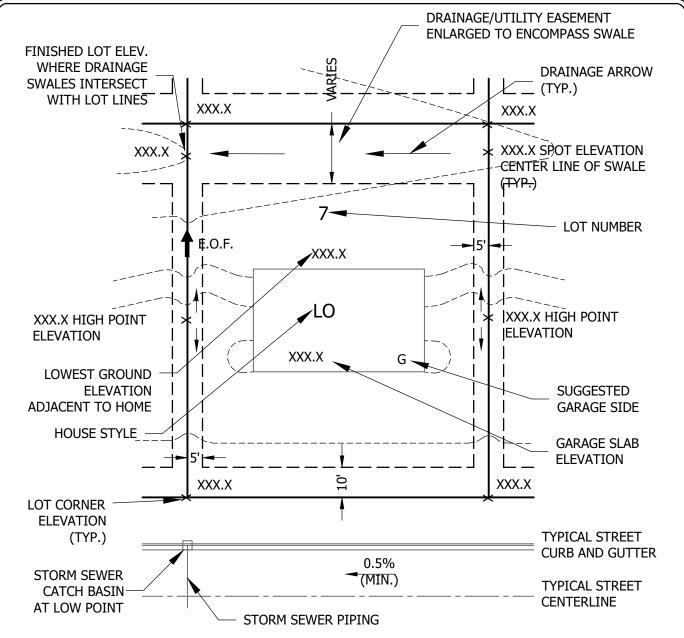


REQUIRED LOT GRADING INFORMATION

LAST REVISION: Feb. 1999

PLATE NO.

GRD-1



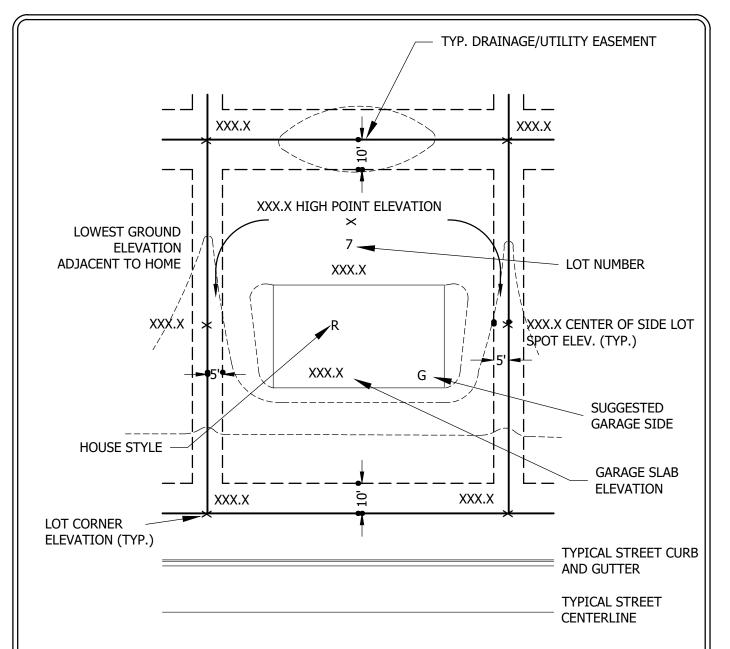
- 1.) VERIFY THAT ALL PORTIONS OF THE PROPERTY NOT ENCORPORATED WITHIN A DRAINAGE AND UTILITY EASEMENT MUST BE ONE FOOT (1') ABOVE THE 100 YR. HWL OF ADJACENT PONDS, LAKES, STREAMS, ETC.
- 2.) SEPARATION OF GARAGE SLAB ELEVATION MUST RANGE FROM 1 FOOT (12") TO 4 FEET (48") ABOVE THE TOP OF CURB.
- 3.) SEPARATION OF TOP OF BLOCK ELEVATION MUST RANGE FROM 1.5 FEET (18") TO 4.5 FEET (54") ABOVE THE TOP OF CURB.
- 4.) ALL SPOT ELEVATIONS REPRESENT FINAL GRADES.
- 5.) ALL SIDE AND REAR LOT SWALES MUST HAVE A MINIMUM SLOPE OF 2%.



REQUIRED GRADING INFORMATION

LAST REVISION: Feb. 1999

PLATE NO. GRD-2



- 1.) VERIFY THAT ALL PORTIONS OF THE PROPERTY NOT ENCORPORATED WITHIN A DRAINAGE AND UTILITY EASEMENT MUST BE ONE FOOT (1') ABOVE THE 100 YR. HWL OF ADJACENT PONDS, LAKES, STREAMS, ETC.
- 2.) SEPARATION OF GARAGE SLAB ELEVATION MUST RANGE FROM 1 FOOT (12") TO 4 FEET (48") ABOVE THE TOP OF CURB.
- 3.) SEPARATION OF TOP OF BLOCK ELEVATION MUST RANGE FROM 1.5 FEET (18") TO 4.5 FEET (54") ABOVE THE TOP OF CURB.
- 4.) ALL SPOT ELEVATIONS REPRESENT FINAL GRADES.
- 5.) ALL SIDE AND REAR LOT SWALES MUST HAVE A MINIMUM SLOPE OF 2%.

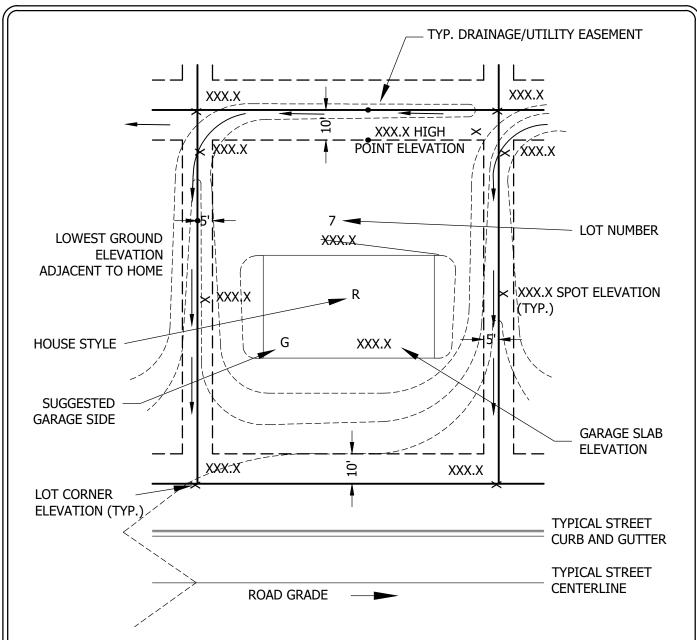


REQUIRED LOT GRADING INFORMATION

LAST REVISION: Feb. 1999

PLATE NO.

GRD-3



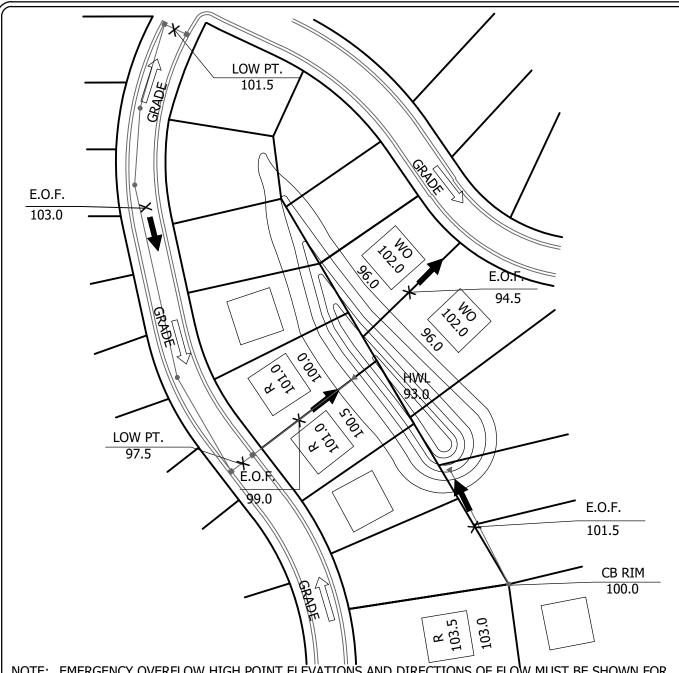
- 1.) VERIFY THAT ALL PORTIONS OF THE PROPERTY NOT ENCORPORATED WITHIN A DRAINAGE AND UTILITY EASEMENT MUST BE ONE FOOT (1') ABOVE THE 100 YR. HWL OF ADJACENT PONDS, LAKES, STREAMS, ETC.
- 2.) SEPARATION OF GARAGE SLAB ELEVATION MUST RANGE FROM 1 FOOT (12") TO 4 FEET (48") ABOVE THE TOP OF CURB.
- 3.) SEPARATION OF TOP OF BLOCK ELEVATION MUST RANGE FROM 1.5 FEET (18") TO 4.5 FEET (54") ABOVE THE TOP OF CURB.
- 4.) ALL SPOT ELEVATIONS REPRESENT FINAL GRADES.
- 5.) ALL SIDE AND REAR LOT SWALES MUST HAVE A MINIMUM SLOPE OF 2%.



REQUIRED LOT GRADING INFORMATION

LAST REVISION: Feb. 1999

PLATE NO. GRD-4



NOTE: EMERGENCY OVERFLOW HIGH POINT ELEVATIONS AND DIRECTIONS OF FLOW MUST BE SHOWN FOR ALL STREET AND REAR YARD CATCH BASINS, PONDS, LAKES, WETLANDS, DITCHES AND STREAMS. A MINIMUM EIGHTEEN INCHES (18") SEPARATION MUST BE MAINTAINED BETWEEN E.O.F. HIGH POINTS AND THE LOWEST GROUND ELEVATION ADJACENT TO SURROUNDING HOMES OR BUILDINGS. A MAXIMUM 18" SEPARATION MUST BE MAINTAINED BETWEEN THE STREET CENTERLINE LOWPOINT ELEVATION AND THE E.O.F. HIGH POINT. ALL SIDE AND REAR LOT SWALES MUST HAVE A MINIMUM SLOPE OF 2%.

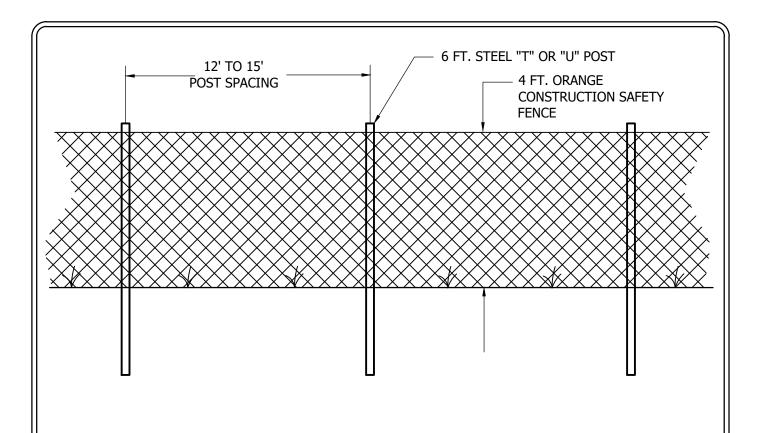


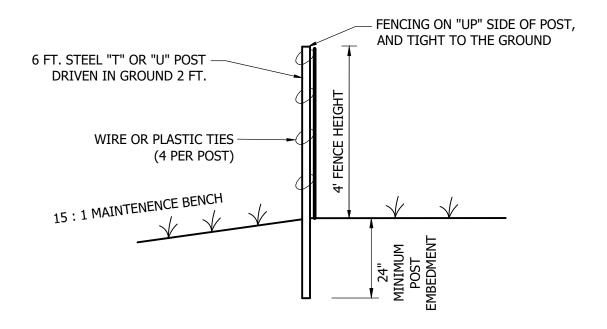
EMERGENCY OVERFLOW DETAIL

LAST REVISION: March 2013

PLATE NO.

GRD-5







ORANGE CONSTRUCTION SAFETY FENCE

LAST REVISION: Feb. 1999

PLATE NO. GRD-6